

MONEY:

ITS CONNEXION WITH RISING AND FALLING PRICES

EDWIN CANNAN, M.A., LL.D.
Professor of Political Economy in the University of London

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PREFACE TO THE SIXTH

THE first edition of this book was written in August and September, 1918, before I knew that the war was at last coming to an end, and it was published soon after the Armstice

In this country the exil of over-assis of currency had not progressed nearly so far as m several others. and in the light of the subsequent experience of Russia. Germany, and Poland the British note issue of that time looks quite triffing, converted into marks at the pre-war rate of twenty to the pound the whole amount outstanding was then only a trifing fraction of the number of marks which were added each day to the German currency in the autumn of ross But in the eye of the prophet a little cloud no burger than a man's hand may be the herald of a storm, and the satuation was made specially alarming by the amazing delusions which prevailed even m most "expert" quarters about the paper pounds which, though the supersession of gold coin had long ago been practically completed, had been paid out by the Treasury during the previous twelve months at an average rate of over a quarter of a million pounds a day, including Sundays Govern-ment applopries, among whom were not only officials. but many journalists and even a few economists, actually contracted that the Currency Note issue, made under a purely permissive Act of Parliament, was uncontrollable by say authority or human being, or at the least that at could not be checked without making the Bank of England bankrupt. "People constantly speak," and one of them, "as though the sizes of currency notion were senselow within the power of the Treasury to regulate. But surely this is not to. Anyone who has a balance at the Bank of England can turn it into currency notes active the contract of the Company of the Company

National Expenditure, after barring the Trassury on the subject, decard not its Sooids Report, "Notes are not issued in order to make Government sparents," without making the slightest attempt to explain how the Government managed to get not of the proceeds of the sase without paying them away. All this make me think it describe to add to my Washi's chapter outnaming the elementary principles on which the value or purchasing power of money depends, but the acquestion turned out longer than I expected, to that it seemed better to publish it I expected, to that it seemed better to publish it.

ments of allusions to states of things no longer exist-

Part II, sections z.-q, and Part III, sections x and z, were added in the fourth edition, rysg, taking the place of two sections dealing with the rise of praces in rygt,-ao which had uppared in the second and thard editions. Much of sections x and a of Part II were taken, by land permission of the editors, from a paper read to the Economic Section of the Buthoh Association at Edinburgh, which was printed in the Resonant Journal for December, 100.

Section 5 of Part II, section 3 of Part III, and the two Appendicon, were added in the fifth edition, gage.

In the present edition I have continued Appendix II, explaining the changes which have been made in the gold standard, so as to make it cover the effect

January, 191



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HIS CONNEXION WITH RISING AND FALLING PRICES

PART I GENERAL PRINCIPLES

& T Introduction

Many economic principles can be dealt with best in the first place on the assumption that when a change is observed in the price of a particular commodity or service it means a change of value occuliar to that one kind of commodity or service, and is not merely a part of a general change in the level of prices, which is only another name for a change in the value of money In civilized countries in ordinary times, as in England for nearly a century before the War broke out in 1014, general changes in pricesrises or falls of prices taken as a whole-were perceptible enough to experts and students, but were too gradual to be realised by the mass of the people, or even to exercise any easily recognized influence on the actions of the commercial and investing classes. In 1913 the author of Wealth . a Brief Explanation of the Cases of Material Wellars, might well feel himself justified in omitting the subject. But after the war the position is different, that brought about change in the general level of prices or value of money so great and so raped that it is perceptible to everyone, and has immensely disturbed the relative material welfare of classes and individuals and berome an acknowledged cause of action in numerous

To endeavour to acquire some clear notion of what

MONEY

makes the value of money change has become the duty of all who think themselves capable of expressing useful opinions on economic affairs. The following pages embody an attempt to assist in this task They do not profess to be exhaustive investigation of the past and discussion of schemes for the future have both been sacrificed in order that space might b gained for treatment of the present.

§ 2. Recognition and measurement of changes in the value of money

A great many attempts have been made to define money in few words. They have failed like similar attempts to define other economic terms commonly used in ordinary language They fail because money, like most of the other great economic terms, and like nearly all words in common use, means different things in different contexts. In a context like the present, which suggests an investigation into the causes of rising and falling prices, it means the unit of account commonly used in purchases any sales and other commercial transactions. In the people buy goods with and sell them for pounds, shilings and pence, and "prices" are always ex-pressed in quantities of these units: in the United States and Canada dollars and cents are used for the purpose in France francs and centures; m India rupees, amas and pice But as the cent and centime are merely decimal fractions of the dollar and franc. and the shilling and penny merely vulgar fractions of the pound, and annas and pice the same of the runes, we can say for short and without any risk of being misunderstood, that the unit of account in these countries is the pound, the dollar, the franc, and the rupee When, then, it is said in England that the value of money has fallen, what is meant as that

s pound sterling, fx, will buy less than before: when the same words are used in the United States what is meant is that a dollar, Sr. will buy less

when in France, that a franc, 1f., and in India, that a rupee. Rr. will buy less Thus an alteration in the general level of praces is the same thing as an altertion in the value of money, except of course that it is upsidedown, a fall in the value of money being a use in the general level of prices, and a rise in its value heme a fall in that level As prices are expressed in quantities of the unit of account, this is a matter which could not possibly be otherwise. The price of things is the money got for them , the value of money is the things got for it.

Till recently there have been many persons, and perhaps there still are some, who mamiest an extraordinary reluctance to admit the occurrence of any change in the general level of prices in their own time

They appear to have at the back of their minds an impression that money has become invariable in value, so that prices taken as a whole are no longer abject to change, however much variation there may oe in the prices of particular commodities. Why such changes should have been possible in the past, as they admit, and not in the present, they are never able to explain, and their reluctance to admit the possibility of changes in the present is only the consequence of their being so habitually accustomed to measure values by money that they feel towards any suggestion that the value of money itself wants

measuring just as the aged villager feels towards the

surgestion that the distance between two milestones from which he has throughout life taken his idea of a mile is fifty vards short , and the suggestion that the value of money has changed appears as incredible to them as the suggestion that the whole of the West Riding of Yorkshire had risen a foot between tona Onderson Summer month

two Ordnance Surveys would annear to the average inhabitant of Huddersfield Being unable to bring forward any reasons why changes in the value of money and general level of prices should have become impossible those who dislike the idea are obliged to confine themselves to questioning the existence of each particular change which happens to take place in their time. It is therefore necessary for us to begin by making clear how such changes may be recognized and roughly measured. We cannot expect to find in actual life a general rise of prices manufesting itself as a uniform rise, say of 10 per cent, in the price of each single commodity and service. If we did expect such a thing, it would imply that we also thought that if the general level of prices remained stationary, say between to-day and next year, the price of each single commodity would be precisely the same next vear as to-day Of course we expect nothing of the kind : we know that particular prices are affected by various diverse influences and are constantly changing. In the event of a general rise or fall of prices there is no reason for supposing that these influences would be any more quiescent than when no such change was proceeding. When there is a general rise, some things will rise much and others little, and some are likely even to fall. How then can we judge whether there has been a change in the general level, and if we are satisfied that such a change has

occurred, how can we pudge whether it is great or small?

The process is analogous to that which would be employed in secretaining whether and it so by how much the existing level of an acce of ground which has been very much disturbed by operations upon it is lower than it was before Let us say that Jones and Smith have been comrades in the War, and on

the conclusion of peace they return home to find that a field belonging to Smith has been used for training recruits in trench warfare Formerly it was flat and level with the surrounding fields, now the digging and mining have made it into something like a model of Switzerland Smith is informed by a friend (who does not want his name mentioned) and beheves, that lones' father, the only hanber in the village, has taken advantage of its disturbed condition to carry away many loads of gravel from it. He tells this to Jones. who replies indignantly "Father would never do a thing like that," and points out that if so much gravel

had been removed, the general level of the ground would have been perceptibly reduced. Smith and Iones go together to look at the ground, and to Smith's eye the field seems on the whole very decadedly lower-" about two feet." he guesses. Tones is led by bus in favour of Iones senior to think there is no difference, and draws Smith's attention to the particularly high parts of the ground : Smith in return points to the biggest depressions. To settle the question, they agree to run a level line of rods across the field sufficiently high to clear the hills and measure down from it at frequent fixed intervals, say every two yards, to the present surface This done, they find that the average of all the measurements indicates a level of 10 mches below the old level This is a blow to Jones, but not so much as Smith expected, so the two agree that this result " is not sufficient to go by," and take another line across the field, this shows an average fall of 8 mches, and averaged with the first line, q inches Both being still dissatisfied they take four more lines which give as their results falls of IT. O. IS and 8 mohes. The average for the whole

of the measurements is now of, and both Smith and Jones see that more measurements will make very little difference. Smith is willing to admit that the MONEA

6

fall need not be more than about to inches, and Jones finds it expedient to abandon the argument that nothing has been removed, and to find some other defence for his parent.

Commodities and services are so numerous in kind and the kinds shade into each other so gradually. that to take into account the price of all of them is much like taking into account the level of every part of a rough field, when smoothing it is not to be thought of. We cannot do it literally, and must be content with taking a sufficient number of measurements at points selected without bias. The ordinary person's impression about a general change of prices is much like Smith's measurement of the level of his field "by the eye"; it is likely that he will be able to recognize a large change of prices-probably anything over 25 per cent., just as Smith is likely to be able to detect a fall of To feet in the general level of his field. When the change is not great, he is just as likely as Jones to be misled by bias into denving its existence, and in all cases bias is likely to mislead him, as it led Smith, into very faulty estimates. To arrive at agreement it is necesary, as in the case of the disturbed field, to introduce statistical methods, and this is done by the construction of what are called "mdex numbers" of prices. The prices of a large number of commodities at some particular date, called for this purpose the "base year" or the "standard year," are collected, and the prices of the same commodities at subsequent (or earlier) dates are represented as percentages of the prices of the base year. If beef cost rod, per lb. in the base year and x3d. at some later date, it is but down at 100 for the first and 130 for the second period, since if it takes 19st to buy what formerly could be got for rod, it takes 130d to buy what could formerly be got for 100. The prices of a

number of other commodities are treated in the same way, so that each stands at 100 for the base year and some other number, larger or smaller than ro according as its price has risen or fallen, for the period to be compared with the base-year Then, as each of the commodities stands at you for the base-year the average or "index-number" for that year w he roo, while the index number for the other d be the average of a number of figures each of w may be above or below 100 When the per is above 100, the excess will indicate a rise of that much per cent in the general level of prices and when it is below the deficit will indicate a fall of that much. Thus m what is known as Sauerback's dex number, in which the base or standard period is the years 1867-77 averaged, the index number for 1806 is 61 per cent, of the 1867-77 average. that for each of the years rors to rors is 84. Then there was an annual rise till roso, for which the figure was 251 An abrupt fall to 155 follows for 1921, since when the figures have been 131, 129, 139, 136, 126 and 122. (The figures for each year are the average of twelve end-of-month records, e.g. the asy for your

a me year accept, weenged, the fields, monthly accept and a part accept accep

approximately its magnitude f
Granting that changes in the general level of prices

¹ For the discussion of the principles of index numbers, see A. L. Bowley, Elements of Statistics

or value of money can and do occur, and that we can appreciate their existence and approximately measure their magnitude, we can proceed to consider their causes In other words we can ask why is it that a unit of account such as the pound stering or the rupes is of greater value—will buy more—at one time than at another? The subject, or so much of it as is of immediate modern interest, may be divided according as the unit of account is a mere quantity of bullion, a coin kept by limitation at a value above that of its bulbon contents, or, finally, a note,

§ 3. The value of money or general level of prices where the unst of account is a fixed quantity of bullion, uncouned or couned.

The unit of account has often and for long periods been nothing but a quantity—which has almost always if not always meant a weight—of a particular metal. The English "pound," still indicated by the initial letter of the Roman libra, being the name of a weight as well as a unit of account, serves to remind us of that time The introduction of coinage makes it possible to count the amount of metal. "reckon it by tale," instead of weighing it with scales every time it passes from hand to hand, which is a great improvement, but it need not make and sometimes has not made, any material difference to the value of the unit , a mint may com all the bullion which any one chooses to bring to it and give it back to him free of any deduction or charge, while at the same time the law allows any one to do what he likes with the com-to export it from the country in which the time to melt it down at home for any purpose whatever In this case a pound weight of bullion is freely convertible into a pound weight of coin and a pound weight of com is freely convertible into a pound of bullion, and the two must therefore be of

conal value: if the coin were worth more than an equal weight of uncomed metal, people would be carrying the uncoined to the Mint: if coin were

worth less than unconsed, they would be melting the com down The fact that the uncomed metal and the comed continue to exist side by side is proof of their being, weight for weight, of equal value We are not to say that the value of the com is determined by that of the uncomed metal any more than we are

to say that the value of the uncomed metal is determined by that of the coin, but we can say unhesitatmgly that the two are connected together and must two cisterns connected by a large pipe.

stand at the same level just as much as the water in This was the situation, for example, in England from soon after the end of the Napoleomic war till 1914, the unit of account called the "pound.

originally a pound weight of silver, had through various vicassitudes come to be represented by a rold coin called a sovereign made out of Tra grams of pure gold and 102 of negligible alloy, comage was free and gratuitous, and coms could be melted or transported anywhere at the will of the owner

What, by an historical survival, was called " a pound " might have been translated into 113 grains of fine gold in every contract and commercial transaction without producing any sort of dislocation or causing any one to lose or gain. It is true that people constantly paid each other "pounds" without passing either shapeless lumps of gold or sovereigns from hand to hand they paid in bank-notes and they paid in cheques, but any one who got a five-pour banknote ino smaller notes were allowed in England and Wales) could if he pleased demand five sovereurns for it from the bank that issued it and any one

who received a good chemic could demand payment of its amount either in sovereigns or in Bank of MONEY

England notes which could be "converted into" sovereigns by demand on the Bank So that any one

paying or receiving "pounds" was always giving or getting something equivalent to 113 grains of gold. Thus the value of the pound was identical with the value of gold-what a pound would "buy" was just the same as what 113 grains of gold would

exchange for.

So the value or purchasing power of English money

-of the pound sterling-could be, and generally

for more of other commodities on the whole was an answer to the question what made the pound exchange for or "buy" more of other commodities on the

whole.

will tend to fall.

The value of a precious metal is dependent on just

the same things as the value of any other metal If more people demand it (that is want it and have

means to pay forit), or if the same number of persons demand more, it will use in value, and vice versa, If more persons are willing and able to produce it. or if the persons already engaged m its production are able and willing to produce more of it, its value

No one will find much difficulty in appreciating this so far as the demand for purposes other than currency are concerned. Any one can see that gold is a metal which is prized for purposes of ornament. which is extraordinarily convenient for hoarding as a store of treasure to be expended at a future date. and which is at present very useful for many industrial purposes and would be gladly used for many more if only it were cheaper. About the changes of demand in relation to all these there is so little difficulty that they are often ignored. But they are far too important for that, as is suggested by the fact that they are

was, quite properly discussed as the value of gold An answer to the question what made gold exchange

estimated in ordinary times to take somewhere in the neighbourhood of a half of the annual product of the metal. We must always remember that the demand tends to increase as people become nother and more numerous, that it meds to decrease as security grows and the labit of keeping halden boards decays, and that it vanus with mediarial discovery, as for cassing, the invention of gold plates in denistry, which accessed the denism of any the invention of products of the invention of gold plates in denistry, which

the invention or goar pasts in connexty, which increased the demand, and the invention of volcanite plates, which diminated it. Further we must note that for many monattrial uses the demand is extra-cidinarily elastic, since if gold were cheaper its use would be extended commonisty—if it were cheaper and one of the control of the cont

rooming doubted for gold for purposes of currency is more difficult to each with, owny for our bung series most of them to each with, owny for our bung series tomat to thank of demanding other things in schange for currency rather than of demanding currency in exchange for other things, and also, perhaps, owing to our habit of taking examples of demand in connection with our muchited taking examples of demand in connection with our cumodities quickly consumed, his wheat, rather than commodities which only punish slowly, like houses If we can shalk ourselves loose from the effect of these habits, we shall soon find the

subject less anomalous than it so fits supposed to he.
The amount of metalia money in custance at any
one moment of time is the sum of the amounts in the
possession of individuals and unstritutions at that
moment. It cannot grow larger without on increase
order in the runniber of individuals and institutions
of the surface of individuals and institutions
magnitude of the single holding. Other things being
equal, therefore, on morease in the numbers of
persons and institutions with separate holdings will

TE

increase the aggregate demand for coin in just the same way as, other things being equal, an increase in the number of persons with senarate houses will increase the demand for houses Such an increase may of course be brought about by an increase of population if the additional numbers do not consist entirely of very small children, very infirm or aged persons, paupers and others who have no senerate holdings of coin. That qualification suggests that an increase may also be brought about by increasing the proportion of the people having separate holdings and by increasing the number of institutions with senarate holdings for example, when a number of old people were taken out of the workhouses and given money upon which to maintain themselves a large number of new holdings were created, each old-age pensioner now having his little stock : and when a new company for supplying anything is established, a fresh separate holding of coin is almost always set up. This part of the subject presents no ficulty.

Given the number of separate haldings, the aggregate amount of our will depend on the magnitude of the average separate holding. The foundation of a person's or an institution's wart of such a holding of one in easy to see. It is the necessity or the separate halding of the see of the second of the see of the second of the

he wants the services of the bus or tram on the way

Before the introduction of paper currencies and methods of setting one payment against another provided by such machinery as bills of exchange and banks, the magnitude of the want for these stocks of coin must have depended largely on the amounts of money which the holder had to spend in the year and on the length of the periods for which payments such as rent and wages were made A rich landlord with a large cent roll would be likely to have a bugger amount of coin in his possession at any time than the landlord with a small rent-roll. The richer man would receive £500 each quarter day, and gradually use that sum up tall the next quarter came round the poorer would do the same with the fron he received at the quarter, and so would always have only about one-fifth as much in hand as the other, The farmer who paid £45 a quarter would be likely to have much less com m hand for some time before quarter day than a neighbour who read from So. too, any manufacturer who had large sums to nex m wages at fortnightly intervals would have to hold for at least a considerable part of the fortnight more com than his neighbour who had only a small wages bill to provide for And supposing a custom came m of paying rents only twice a year instead of four times, both the landlord and the farmer would have to keep more com by them on the average, and if weekly wages became the custom in place of fortmightly, both employers and workmen would have to keep less by them on the average, as their stocks would be replenished more frequently. Further, if money became less valuable, so that more must be raid as the rent of any particular farm or the wages of any particular man, larger stocks of com would be kent.

Nowadays the situation is very different. Methods of setting one payment against another through banking and other agencies have done away with the necessity of a tenant holding an amount of coin in preparation for paying his rent and gradually increasme it as quarter day draws nearer, and also with the necessity of landlords holding a large amount of coin after quarter day and letting it down only gradually during the quarter. The rent is paid by a bank writing certain figures in its books which enable the andlord instead of the tenant to draw out the sum : the bank does not keep one stock of coin for the tenant and another for the landlord : both stocks are dispensed with. Even when there were no fr and ros. notes, the firm that had to pay £1,000 in wages did not in modern times have to accumulate (1,000 gradually throughout the week before pay day, but simply sent a clerk to the bank for the money an hour or two before it was paid out

Paper currenous containing notes of small denomination has workward relieved every consense hazles and governments of the sensenty of lobing comandigues of the control of the control of the sensent of the sentlet note Com lost only waited as "the change" of a note. When there are 'ten-ellings on the control of the control of the control of the person, unless he is very poor undeed, will have use as so much. Frame which save to pay large some in wages do not want say coin to pay those men who has much. Sense which save to pay large some in wages do not want say coin to pay those men who mention to the control of the control of the conquence is that, when the amounts hadd by governments and bashes self-ter of account; the magnitude on the magnitude of the smallest rote which is allowed by law and as generally accopable in I. & is the lowest note, a great deal of com will be required. of £1 or 10s much less, and if a dollar, still Increases of meome will make no difference e in so far as they go to the very poorest cl or shorter intervals between periodical will only make this difference, that "c hkely to be recurred in payments mad intervals, since salaries, rents and other are more likely to be for multiples of note when they are read at long intervals than w paid at short ones. Diminution in the value of money (higher prices) will not greatly tend to increase the want for coin, since it is not in the least like to cause a withdrawal of the smallest note from circulation, and when prices are higher, more this will be in the region where purchases are made by notes . given that ten-shilling notes are in circulation, and are to continue in circulation, doubling prices will not make people le want many more hal or other silver come and will make them want fewer

How much com will be held by the governmen which issue paper currency and by banks, whether they usue bank-notes or not, actually depends at present not so much on what would be thought necessar or deurable by a dispassionate and well-informed observer who could feel confidence that his common would be accepted by all, as on the decision arrived at by government and banking authorities, who often accept wholly erroneous theories, and who have to be guided to a large extent by the ecroneous theories held by the public even when they do not accept them. So we find in different countries very different amounts of com held "in reserve" assume habilities which seem on the face of them very much the same, and very great changes in quite short periods. In practice therefore in modern times

any condisionable and rapid change in the currency part of the want for the practions makes, specially gold, comes from change in the polary of governments. At one moment a government will accumulate enormous sums in gold to impress its subjects or its enormous sums in gold to impress its subjects or its enormous with an appearance of solverny, and a few years after it will speed the whole. For a centrup, a government will probable the same of notes under £5 and generate that gold must be kept against all these will intell assess £7 and ten, notes and multiply the same by sax without moreasing the reserve at all.

at all. Some find a great definedity at this point. They say they can expression in the shortest the expression that the transcent was the shortest the expression of the shortest the expression of the shortest than the shortest than the shortest than the cannot be the transc that while of both the com and the unconsoluted in that they cannot see how the result comes about. If more pold is wented for dental plates, it seems cannot have the shortest that more will have to be paid for it, but then it is pold for an gold overenges, and cannot be worth more than before its them, for the two are the same thing, so, too, if more come is even the same thing, so, too, if more come to work the same thing, so, too, if more come to work the same thing, so, the short platest the same thing and the same than the same t

The samere is that we do not in fact tony goals with gold, or com with money. We obtain the gold or com we want by group other commodities or services in exchange for them. If I, a private person, was no increase my average sholding of com from £5 to £00. I cannot do it without somehow or other sacrificing, group up, not money but other goods or services I mark work harder and earn more, or I must roduce my expediture, or I must roduce my grandum, the contraction of the most roduce my savings and consequently here.

less goods of some sort or other. If I gove 5, for the poli in it death plate and poll wheth and dalm, just in the same way I must go to up some commodulus restricted by the policy of the policy of the policy of the more obviously of any large aggregate of persons one obviously of any large aggregate of persons of I fain decide that they wall keep a larger stock of of I fain decide that they wall keep a larger stock of add or ariset, they must obtain it by goving goods or ser less in acchange for it, as they have been doing for continues

services in exchange for it, as they have been dome If this is not found sufficiently convincing let us think of the converse case, in which a person sells his gold ornaments or reduces his stock of coin. Does he not then increase the demand for commodities other than gold as compared with the demand for gold? During a goal shortage I sold some gold ornaments, and immediately expended the money proceeds in the purchase of wood for fuel Must not this have tended to make the demand for gold less and the demand for wood greater than if I had continued to keep the ornaments in a drawer and gone without a fire? So, too, if I had arranged by good management to reduce my stock of com by Ir. could I not have spent that Ir on something that wanted, and would not this have tended to driminab the value of gold and increase the demand for the thing that I bought and therefore for things other than gold? To buy gold with gold would be as futile as to buy wheat with wheat . whenever we get gold by grying something else for it we tend to increase the demand for it, and consequently to increase its

value. whenever we give gold for something else

1 have thought it best not to esceniber the text with the
seggeston that I may get the cost amply by reducing my
balance at the bank. If it do thus at mean simply that I drive
a harder bargaon with the bank and the banker instead of me
has to sacroise something

we tend to diminish the demand for it and consequently to reduce its value. For the most part every week or month or year we give as much as we get, and the temporary ups and downs of our stocks cancel each other quickly; but when we norcesse our holding for good or diminish it for good we excruse a permanent influence.

The exposition so far given may seem to leave no place for the theory of value being connected with sarginal utility, as taught in the economic textbooks in regard to ordinary commodities But marginal utility plays just the same part with regard to gold (both for ordinary purposes and for currency) as it does with other commodities. The lower the value of gold, the lower will be the uses to which it will be put, and the poorer will be the classes of people who are able to use it : as has been suggested above, if gold were cheap enough, it would be used for roofs, and many people who do not have things which are now made of gold because they cannot afford them would have them. This is really easy enough to understand, but it may be a little difficult to see how the manual utility theory applies to currency. Can we say that the value of soveregos falls as they become more plentiful and their marginal utility diminishes? Where is the marginal purchaser or the marginal purchase? Where the elasticity of demand? The answer is that the difficulty we feel is only the result of the strangeness of estimating the value of sovereigns in other things instead of, as usual, the value of other things in sovereigns The marginal purchaser is the man who is only just convinced, or in practice in modern times the bank or Government which is only just convinced, of the desirability of mcreasing or diminishing the stock of com in hand, just as the marginal purchaser of house room is the man who is only just convinced of the

cierarchici, of paying for more accommodation. The murginal princates is the increase of cofections which come one is only just permeded to make, and the come one is only just permeded to make, and the consistence of the commodation of the commodation of consistence of the commodation of the commodation of consistence of the commodation of the commodation of the commodation of the commodation of variables under the commodation of the commodation of variables under the commodation of the commodation of the commodation of the third paying with the same part as they do in regard that the commodation of the third commodation of the commodation of the commodation of the third commodation of the commodation of the commodation of the third commodation of the commodation of the commodation of the third commodation of the commo

The supply side of the problem of the value of the precious metals is no more anomalous than the demand side

Gold and silver are produced like other things. because the producers want to get money But it is just as true here as elsewhere that people only want money in order to buy other things with it, so that their real aim is the acquisition of these other things and services. Thus though they produce gold in exchange for money, which may be gold, or based on gold, they are really exchanging it for other commodities and services. There is nothing mysterious about the way gold comes from the sources of supply into the hands of the people, either as currency or as other things made of sold. It is exchanged for commodities and services just like coal or any other mineral The workers earn bread and meat and other things by their labour in producing it just like workers in other industries. The owners of the machinery employed obtain profits and with these profits buy the things which they want in just the same way as the owners of machinery employed in other ways The owners of the mines or sources of supply sometimes live in luxury in Park

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Lane and sometimes starve in Soho or on unproductive and unhealthy diggings, but all that they do get is got in the same way—by exchange of gold for money which is immediately paid away for other commodities and services—these being the real thing coming into the commercial world is exchanged for-"sold," if we may turn the word round to signify its converse—for commodities and services other than gold, and when plentiful in relation to them, it will tend to be of smaller value—will be cheaper—than when it is less plentiful. The truth of this is illus-trated by the high prices of commodities and services in newly discovered or inaccessible gold-producing areas. In an area in which gold has only just been discovered gold will be of small value (general prices will be high) because it is plentiful there in companson with commodities which have to be brought there, and with services which have to be performed by persons brought there: if the area is easily accessible, this will only be temporary, for the high prices and earnings will speedily attract commodities and workers But if the area is and continues to be difficult of access from the rest of the world, like the Australian goldfield of the eighteen-fifties, and the Transvaal and the Yukon later, the value of gold will remain lower (general prices will remain higher) there than in the old-settled thickly peopled parts of the world because the supply of commodities and workers to the area will remain restricted by the cost of getting them there If any one doubts this explanation he has only to ask himself whether he believes that if goldfields like those of Australia and the Yukon had been discovered in Yorkshire or on the banks of the Rhine or the Hudson, there would have been any long continuance of much higher prices in the immediate neighbourhood than in the rest of the world.

Obviously there would not, and the reason would be that the services and commodities would scon be

present in sufficient quantities to equalize matters When gold mining was carried on in so speculative a manner as it was till quite recent times, peo tempted to think that cost of production had little or nothing to do with the value of gold But now we hear of mines on the marrin which cannot be worked of the proces of commodities and services control so high This simply means that they cannot be worked when gold is so cheap. We are sometimes told that gold is unlike other commodities in the fact that the stock is so large in comparison with the annual contrast, and this is not forward to metify regarding the value of gold as being not affected t ties. But there are other commodities besides t precious metals, for example, houses, of which the stock is large in proportion to the annual output, and no one thinks of suggesting that cost of production does not play its usual part in relation to these. Producers of gold sometimes reap large profits and sometimes small profits, and so do producers of houses. A larvely increased demand for gold cannot be satisfied rapidly, neither can a largely increased demand for houses. Double the output of plums in any one year, and you will enormously reduce the value of plums double the annual output of gold or houses and you will produce nothing like as much

Anticipation, correct and moorrect, plays the same part in regard to the value of gold as in regard to that of other times. The terms on which people exchange times depend not on what is, but on what the exchanges believe. About the present they are often missinformed, but their mistakes soon appear and mostly cancel each other, about the future they can only speculate, some time must clapse before the truth appears, and the mistakes are often mostly in one direction so that they do not cancel each other. Now the price of a thing at any moment is con-

Now the price of a thing at any moment is con-stantly influenced by anticipations of what the demand for and the supply of the thing is going to be in the future, and the more durable the thing is, the more important are the effects of these anticipations hkely to be. Thus plums were not a penny cheaper in the summer of IGIS because next year's crop was universally expected to be much larger. But when any one is in search of a house, not to rent for a short time but to buy for good and all, he finds himself met immediately by the owner's views about the domand for and supply of houses next year and many years after that. If there is general agreement that the demand for houses will be good and the supply poor for many years, the value of houses will be higher than if the contrary is the case, whatever the present quantity of houses and whatever the present desire of persons for house-room and whatever their number and their means to pay for what they desire may be It is just the same with gold as with houses, except that there is perhaps a little more probability of general error in one direction or the other in consequence of the widespread impression that gold is invariable in value. In considering whether to buy iron or any non-precious metal, and even a precious metal which is not the standard metal, men think of the future demand for and supply of that particular metal, because they think that these factors will settle its future price - but they will think nothing about the future value of the gold they are going to give for the iron Estimates of the future value of gold, if made at all, are made quite unconsciously in the estimates which are formed of the likelihood of a general rise or fall of prices. If

project buth there is going to be a general inset opprote the tuths—without knowing 1—that gold is going to fall in value, and act accordingly. These post polyment is more highly to be wrong than there tone polyment about some there is the polyment of the polyment about some than the contraction of the polyment about the contraction. This is perlays the explanation of the fact that at one princiing the commodity and consideration. This is perlays the explanation of the fact that at one princilar than the principle of the principle of the polyment of results of the principle of the principle of the polyment of central results of the principle of the principle of the central results of the principle of the principle of the central results of the principle of the principle of the principle of central results of the principle of the principle of the principle of the central results of the principle of the principle of the principle of the central results of the principle of the principle of the principle of the central results of the principle of the

Whatever the cause of a boom, the high proces which mark it are exponement with a low value of gold, which seems in strange contradiction with the ordinary view that in a boom "every one wants ney" But the contradiction disappears if we hink ourselves what every one wants the money for: it is to buy commodities and services in hopes of making a profit because "things are going People may want money, but they only want it because they want commodities and services: the fact that commodities are supposed to be going up makes it desirable to lay money out on them at once if the money is kept, it will not buy so much The pressure is not to add to money stocks by seiling, but to deplete the stocks of money by buying as far as can be done without too great inconvenience and risk. Individuals and banks will try their hardest to carry on with the smallest possible stocks of rold. when gold is the one important thing which they do

not expect to rise in value

Thus, even if every one always paid in gold for
everything immediately on receiving it, a preponderance of expectation of higher general prices (lower
value of gold) in the future would to some extent
raise general mones (lower the value of sold) in the

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present. But pople do not shraps pay on deliveryinty frequently modes the selfer to it them have the goods on condition that they will pay some time (in all important cases at some definite time), after delivery. The selfer than gives the goods for nothing at the moment beasant in condition to receive as at the moment beasant in condition to receive as the moment beasant in condition to receive a date. The buyer of the goods contracts to deliver has gold at the future date. If both payers and sellers are influenced by some wave of sentiment which makes them belower pores will go palger, the prices are the three to any influences for the belief higher, whether there is any influences for the belief

History shows that war raises prices (lowers the value of gold), and this seems very surprising to those who regard gold as the sinews of war. If it is the smews of war, they think, it should rise, not fall; all beligerents seem to want money very badly, and gold is the best kind of money and that which they seem to want most. But all this is fallacions. money is not the sinews of war, and what the belligerents want is not money but various things which they hope money will buy. In their hurry to get munitions they are ready to pay away all the money they can acquire by taxes or by promising to pay money (with interest and very likely a premium) at some future date Far from prizing money more than usual in comparison with commodities and services. they shovel out money and promises to pay money with far less reluctance than in times of peace. As for the special utility of gold, that metal is one of the few which are of no direct use for military purposes A beligerent may sometimes think it useful to parade a large stock of it, as more than one government did during the war, because owing to the erroneous beliefs of the unblic this may comfort his subjects

and disturb his ensemes, but if dever and unscrupions, he will arrange that very little of the apparent stock is real gold. Nearly every beligerent scrapes together every storn of gold he can get from the countries to profuses the thenge which he wants so much more. Hence it is perfectly natural that gold is abdillow switch and that the general level of proceshould me in the countries which have and return a money system on which the unit of account is a money system on which the unit of account is

equivalent to a quantity of gold bullion. Thus the conclusions to what his section of our inquiry has led us is that where the unit of account in money recknings in either a fixed quantity of fire metal (e.g., gold) or a come equivalent to such a quantity, the value of money lead therefore the general level of prices) depends on the value of these metal, which is determined in the same way as that of other commodities by the same kinds of influences scatum on demand and supply

§ 4. The value of money or general level of prices where the unst of account is a cost of which the testie is

So much for the sumplest monetary system, an which the unit of account is literally or un effect a definite weight of a certain metal. The system which can be most convenently taken met a that us which the unit of account is still a com, but a can the value of which is not mided whoily devereed, but is to some extent separated from the value of the bullion of which is not maded whoily devereed, but is to some extent separated from the value of the bullion of which it is made.

The comage of a particular metal may be "free," in the sense that any one may misst on having any amount of that metal coined for him by the Mint, without being gratuitous or done without charge After all, we may reflect, com is a manufactured

article, and why should it alone be manufactured for nothing? Why should not people who want coin pay for the cost of making it up as well as for the raw material, just as they pay for the making of flour into bread and the making of white paper into a printed book? Where comage is gratuitous, it is always paid for out of Government revenues, because Government is the only agency which will do it for nothing If private enterprise takes up the business (a thing not altogether unknown*) it will certainly leave the demand for com unsatisfied till com is enough above the raw material m value to make it worth while to manufacture it. The Government might act, and sometimes has acted, on the same principle, and make the same charge for coming that private enterprise might be supposed likely to make if under ordinary competition. Further, the manufacture is one very strictly monopolized perhaps no other monopoly has ever been protected by such draconian penalties as the monopoly of coining What is there to prevent governments from charging considerably more than the mere cost of coining? Something was exacted under the name of "seignorage" by the seigneurs or lords who exercised the right of coming m mediaeval times, and doubtless they would have made the percentage much higher if their monopoly had been secure from the introduction of foreign come into their territory Modern governments could probably charge more with safety, but have been restrained from making heavy charges and sometimes from making any at all by the reason naively suggested by the preamble of the statute 18 Car. II c. 5, which established gratuitous comage in England, "An Act for the

Recouragement of Comage "This runs "Whereas

1 For a fairly modern commile, see Questerly Journal of
Economics, August, 1917, pp 600-634.

it is obvious that the plenty of current coins of sold

and silver of this kingdom is of great advantage to trade and commerce " The offect of a charge for coming as to tend to raise the ordinary value of the com above that of the uncoined metal by the amount of the charge, just

as any charge for the manufacture of any other article ordinarily raises its price by a corresponding amount above the value of the raw material. It

restricts the production until the manufactured article is sufficiently above the value of the raw material to make the manufacture pay So, if our Mint comed all gold brought to it, but charged 5 per cent, any one who brought enough gold to make roo sovereigns would only get Q5 sovereigns in exchange for it, and in consequence no one would bring gold to the Mint so long as he could get more than os soverment-for-for that amount of gold elsewhere. Whenever it was worth while to get gold minted it would be because the market price of gold was only

for for the quantity out of which xoo sovereigns were made, and when the price of gold is at that level it means that ninety-five sovereigns—195—will buy enough gold to make xoo sovereigns, so that the sovereign as worth ASS of the sold of which it is made, or to put it in other words, that the com is worth one-nineteenth more than the gold in it. It cannot be more than this for any appreciable time where comes is "free," i.e. any one can bring as much gold as he pleases to the Mint and have it coined on paying the charge So if the demand for com were to mcrease rapidly, it would be met by a greater supply On the other hand, the value of the sovereum might easily fall below a hundred ninety. fifths of the gold in it for a period of some duration owing to decrease of demand new comage would not take place in this period. The value could not in

of MONEY

any case fall below that of the gold in the sovereign where the possibility exsted of turning the com not uncound gold by the simple process of melting 50 the effect of segmengs is to keep the value of 50 the segment of the segment of the segment of value plays the segments, and in progressive even in attainancy periods to keep it at the higher end of thu limited space.

We must be careful not to be confused by changes in the mere form of the transaction. For a person to take raw material to a manufacturer to be made up for himself, and remunerate the manufacturer either by letting him keep a part of the product or by paying him money for the service rendered, was once a common method, but is now obsolete, surviving even at Government mints, if at all, only in name. Gold producers do not now bring or send their gold to a mint and receive back the same gold less seignorage and other charges, if any, but sell their gold to the mint (or a bank which acts as its agent) for money paid to them, and they regard themselves, like other producers, as receiving a price for their product So there are "mint prices," prices given by the mint for gold, and when a seignorage is exacted, it appears in the form of a difference between the mint price of an ounce of gold and the amount of com made out of an ounce When, for example, the mint price of an ounce of "standard" (i.e. 13 pure) gold is 43 17s. rold, or 43 804, and that ounce is comed into £3 894 sovereigns, this shows an absence of seignorage a seignorage would be introduced by the interposition of a gap between the mint price and the amount of com made out of the ounce. eg a lowering of the mint price to £3.75 per oz., while the ounce continued to be made into 3.894 sovereigns, would vield the Government a gross seignorage of fo 144, or 2s. 10ld. per oz.

On the value, measured in commodities in general, of the metal of which the coin is made, seignorage has no influence except in so far as it tends to reduce the demand for that metal by dummishing the quantity taken up by the currency, and this may be taken as a practically negligible effect when seignorage in only a single country is being considered. We need, therefore, scarcely encumber the exposition by making an allowance for the tendency of seignorage to depress the value of bullion: the matter is too trifling to be

worth bringing mto account. As seamorage is seldom or never large, and as for

the most part it simply raises the value of the coin once for all and then allows it to fluctuate very nearly with, though a little above, the value of the bullion contents of the com, we may regard it as of little practical importance, but it may be of considerable use in enabling us to understand the effects of limita-

tion in general

When the fact is once grasped that it is limitation of supply, coupled of course with sufficiency of demand, which enables a seignorage to keep the value of the com ordinarily above the value of the metal of which it is composed by the amount of the seignorage, the way is opened for comprehension of the fact that by a "closing of the mint to free comage," and coming only suitable amounts, coms maof one metal may be made to circulate at so value fixed by reference to come made of another

metel

This was first discovered in consequence of the very reasonable desire of every one to keep coms made of two different metals, gold and silver, both in circulation at the same time, gold being convenient for larger and silver for smaller payments, though not for the smallest of all. So long as they attempted to maintain free courage of both metals, governments

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were in perpetual difficulties arising from the fact that the ratios which each of them prescribed between their gold cons and ther silver coins always sooner or later led to one or the other metal being not supplied in sufficient quantities for the requirements of a convenient currency.

With regard to copper coins the principle was acted on long before it was recognized or understood, and long before it was acted on with regard to silver. Money of small denomination was demanded, Government did not supply the need, and, as usual, private enterprise stepped in The story in this country is roughly that tradesmen took to issuing metal "tokens" for small fractions of the unit of account such as pennies or farthings when the Government did not coin them, these tokens entitling the holder to goods of that value at the shop of the tradesman. They were not always retained for further purchases by the customer who received them in change, but got into circulation, i.e they were generally accept-able, so that things could be bought with them from other people as well as from the tradesman who issued them, although the metal of which they were made was not and did not profess to be of appreciable value. Abuses of course soon made their appearance. and the business of providing these "token coins" was taken over by the Government. They were manufactured by or for the Government and given m exchange for larger money paid by people who wanted the small for purposes of their business. There was no "free" counage. The metallic value of the couns was considerably less than that at which they circulated without the least difficulty, but some importance was attached to it, and no one seems to have understood that their value was given to them by the demand coupled with the limitation of supply

enforced by their being sold to the public at the

rate of o60 farthings, 480 halfpence and 240 pennies to the pound sterling Even when the whole comage was remodelled in

1816 no one seems to have thought of applying the actually applied in consequence of what seems to have

been merely a happy accident. It was intended to continue "free " comage of silver, but to make it, as Adam Smith had recommended forty years before, subject to a segenorage of as per lb troy weight (the Mint price being fixed at 62s for the lb , which was comed into 66s). But for some reason or other free comage was only to begin after the issue of a proclamation about it, and the issue of this proclamation was delayed Meantime the Mint bought salver at the market price, coined it, and sold the coins to those who wanted them at the rates of 8 half-commuso shillings and so on to the pound. This method being found profitable to the Mint and satisfactory to every one else, no one troubled about the prodamation, and it was never issued. It was only in 1870 that the provision for free coinage after th issue of the proclamation was struck out of the Statute-book, and even then the importance of the change made by the disappearance of free comas of salver does not seem to have been recognized. The usual belief seems to have been the very extraordinary one that the silver coms were kept in their proper relation to the sovereign by not being legal tender for more than £2, as if a disability of this kind could possibly have either kept the value of the com above that of the metal of which it was composed or have kept it in circulation if the value of the metal was greater than the value at which the com would circulate The fact that silver coins are legal tender up to and not beyond & and that bronze coms are legal tender up to and not beyond to os (a shilling)



First, what would have happened if at some period the demand had fallen off, and that faster than the com is consumed by abrasion and loss? Suppose a ingenious improvement which led to the substitution

or some system of making small payments without the use of com In that case some persons or institu-tions, probably the banks, would have found themselves in possession of inconvenient amounts of silver and bronze coins-more than they could nay out without annoying the persons with whom they did business The probability is that they would insist on the Mint taking back some of the coms at the ratio at which they were issued, but if the Government obdurately refused, and the falling off m demand was large and expected to continue, the come would go to a discount, i.e. for the sake of exchanging them

for more convenient money people would be willing to submit to some loss on their nominal value, and they would be exchanged for the more convenient d com or bank-notes at something below the official ratio Secondly, suppose excessive supply. In order to placate some school of currency theorests, or in order simply to make more profit, the Government is not content with issuing silver or bronze coins when they are asked for by persons ready to pay the price, but proceeds to put much larger quantities out by the device of ordering Government wages and postal

money-orders in sums up to fa to be paid entirely in silver The same results will follow as in case of a falling off of demand—there will be too much silver com somewhere, and if the excess cannot be returned to the Mint at par the com will eventually so to a discount Additions to the supply made by illicit coinage will of course have exactly the same effects

as additions made by the Mint, and where Government was very wask or mellicent, they might be on a sufficiently large scale to replace the issual Government supply and occord the appropriate amount, with the same result of bringing down the value of so low that it would not pay the little immunications to produce enough to bring it still lower. The scale danger from filter chinge down on a page to be great, owing to the fact that coinage on a large meant of the contraction of the con

compared with that of the instead articles, concerning with the control of the co

If the value of the metallic contents of a com of this kind is not originally very much below the value fixed for the com, the particular arrangement made will perish in the event of a considerable rise in the market price of the metal of which the com is made. 1 This was written in 1928 From 1921 to 1924 large withdrawsh were used as the expecse of Must profits and the The will hoppe because the metallac contents of the cost will their be worth more than the wiles at which the cont will the cont a rinde and curvaliste, and the cheaper to corner of supply to any one who wants the metal for mediatrial purposes will be the conseque. Thus it serve went up to more than 60° for the curvey, and the content of the content

comage would disappear, and every one would be monon-emanced till some substitute equality good was discovered in some countries this inconvenience has actually occurred. The way to prevent it is for the Government to take time by the forelock and issue a lower weighted (or more alloyed) alleve contage a lower weighted (or more alloyed) alleve contage draw in as fast as possible the old heavier (or purry) com. If this a done sufficiently promptly a balance of silver will remain in the hands of the Government and no one will be but !

There is no inconsity for a whole series of coins of this character to continue the same proportion of metal to their cours under the same proportion of metal to their coin valoe, and it is often convenient that they should not. This war recognized when to make them more portable our pennies were made less than double the weight of the half-pennies, and the principle might well be applied to coins of higher denomination. The threepomps prece is no small and the fire-shilling proce and the American dollar are too heavy and builty.

After the paragraph was written the price of alver rose greatly, and in the seemon of ages parhament authorized the same of alver come alloyed fifty per cent. 36

Nor is there any reason why such coins should not. when convenience suggests it, be made of the same metal as the standard com. When Lord Randolph Churchill was Chancellor of the Exchequer it was proposed to reduce the metallic contents of the halfsovereign, while keeping it in circulation at the rate of two to the pound. The con is subject to a large well contribute towards its own maintenance so to speak, by being issued in the first place at a profit

Towards the end of the nineteenth century this principle that sufficiency of demand and properly limited supply will keep the value of a coin above that of its metallic contents was applied to standard com in several parts of the world, of which India was

the most important
The Indian Government was troubled in various wave, unnecessary to describe, by the change in the ratio of value between gold and silver The standard was silver and a silver com, the rupes, was the unit of account The ratio of value which had prevailed for a long time between the value of gold and silver m the markets of the world made the value of the rupes to the gold sovereign or pound sterling about to to I. so that in ordinary language in England the runes was said to be about as , while in India the pound was said to be 10 rupees But the ratio was rapidly changing, so that it was said in England that the rupes was falling, and in India that the pound was rising The Indian Government wished to stop this movement, and also to link up India with the Western world, in which the gold standard was predominant. After some resistance on the part of the British Government, it was allowed to adopt a scheme under which the supply of rupees to the currency was to be so restricted as to keep their value up to the ratio of 15 to the fr. The possibants of the ratio between salver and gold varying acom so as to make the metallic contents of the rupes ernal to more than one-fifteenth of fr was recomired. out was not regarded as an objection, masmuch as one of the placets of the change was to keep the runce higher than it otherwise would be. If it went higher than 15 to the fx the new system would

simply disoppear because no longer necessary There would be no melting down of the silver counage, as there would in similar circumstances in England. because there would be no gold currency in the way to present the council rupec rising in value alone with silver

Some of the older economists and financiers of the time said the scheme could not possibly work, and were greatly pleased when their prophecies seemed to be justified by the failure of the rupee to stand immediately at the intended rate. But this was only the natural consequence of insufficiency of demand . the demand was not at first big enough to make the mere stoppage of new comege bring the value up to the ratio Soon, however, demand increased, and gradually increased enough to overcome the counteracting effect of some new supply in the shape of rupses which were outside India and now came back

because they were worth more there than outside the rupes rose in relation to gold so that merchants in India and England were able to do business approximatchy at the ratio of 15 rupees to the £1, and the Indian Government could pay approximately fx due from it with 15 runes. And little difficulty was found in maintaining that ratio.

The rupee consequently came to be one-fifteenth of a pound just for the same reason as the English shiling is one-twentieth of a pound—there was a sent demand for it and not too much supply

The difference was that m India there was no gold

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sovereign in circulation, so that the ratio fixed for the rupee was not with a domestic coin but with one circulating in another country, and could therefore only he seen at work in the business transactions between the two countries, commonly called the exchanges. Hence the name "gold-exchange standard" applied to the monetary system of India and other countries with silver currencies kept to the standard of gold. But we must beware of imagining any natural pre-emmence of gold over silver. The same system might be applied with equal case to keeping the value of a gold com at some fixed ratio with the value of the silver com of another country or indeed with the value of any other clearly cornizable commodity or even with a collection of commodities such as appears in the formation of an index number of prices. The Swedish Government came near adopting a plan of this kind in 1916, when it put hindrances in the way of the entry of new gold, but the object to be simed at was not properly understood. and the manufacture of paper substitutes for coin was not adequately limited, so that the experiment proved completely abortive, the value of the Swedish currency eventually falling not only down to but considerably below its original parity with gold (See Gustay Casse), Money and Foreign Exchange after 1014, pp 70-100)

The conclusion of this section is that given demand for a con, adequate restriction of supply will keep its values up to any required level above that of its metallic contents It is not, of course, a metallic corollary of this to say that adequate additions to supply would keep its value down to any required level above that of its metallic contents that is perfectly true, but adequate additions connot be made, because a com worth less as a com than the boilion of which it is made will always, law or no law;

ultimately be melted to be turned into something else. Consequently where the unit of account is a coin regulated in supply, the value of money is never lower, may by chance occasionally be equal to, and is ordinarily higher than it would be under free and gratuitous coinage. How much higher depends on the particular standard of restriction adopted: it may be higher by a given percentage; it may be higher by the amount necessary to make it conform with the variations of some other money, as the Indian rupee was kept higher by the amount necessary to make it one-fifteenth of f1; or it may be kept as much higher as the restricting authority judges desirable by some rough estimate, or as much higher as will preserve stability of value as indicated by some index number of prices.

It is no objection to this conclusion to say that the value of a coin restricted in supply may be reduced by the competition of paper currency. That is merely one of the numerous things which tend to reduce the demand for the coin, and may make the demand insufficient to keep its value over that of its bullion contents. The case will come under notice again in the course of the argument of the next section.

§ 5. The value of money or general level of prices where the unit of account is a bank-note or currency note.

In modern times metal discs stamped with certain designs and lettering are not the only things with which people buy and for which they sell. They also use scraps of paper on which are figures or words (or both for safety) indicating amounts of the unit of account, for example "fr," "Ten shillings" (which is half a pound sterling). There is usually other reading matter on the scraps, but it is not commonly read or regarded as of any more importance than (what is to most people quite unintelligible) the

"DIST. CRA.1 BETT: COMY. EEX VID.; DEST. INDI-THE:" 'Dround the King's head on our comes Provided the paper will be taken for the amount printed conspacously on its face, wherever we are likely to offer it, we do not trouble ourselves whether, like a bank-note, it carries the promise of some person or bank-note, it carries the promise of some person or demand (see! in beamers bount), or, like a envenoy note, says that it is legal tender it, a that we can compel any one to whom we owe the sum to choose between accepting the paper is discharge of the debt

and going without payment altogether).

How such "notes" first got mto circulation along

with coins in various countries and at different times is an interesting historical question well worth studying. But the answer is lengthy and not material to our present purpose It will suffice to suggest a few of the reasons why a demand arose for such a currency. Sometimes the demand arose from the bad state of the coinage. When base com was common and originally good coins were hable to be much clipped without immediately being rejected by all sorts of good and bad foreign coms found their way into each country, the mexpert person never knew what he would actually get if he accepted say (50 or figo tendered to him by a buyer or a debtor, and even an expert would take some time examining. weighing, and perhaps assaying some of the coins What more natural in such circumstances than that a person, having once got a quantity of coin, should hand it over to some expert man or institution with a reputation for honesty to be examined and certified as amounting to a certain sum? And then what more natural than that having got the certificate he should use it instead of the coin itself to make his next his payment with? Instead of offering a

doubtful beap of medal which may or may not mount to what he says it does, he sa sible to first a criticate or note which will does, he sa sible to first a criticate or note which will entitle the holder who accepts it consenting much more definale: all that a required a constitution of the same definale and that a required such a form that handing it over from one person to such a form that handing it over from one person to entitled quantity of moore, and the certificate as suches—delaway—will translate the certificate in the na naturally better medium of exhaugh than the third in the certificate of the nature of moore, and the certificate is the naturally better medium of exhaugh than the third in the certificate of the natural person of moore, and the certificate is the naturally of moore, and the certificate is the naturally better medium of exhaugh than the first manufacture of the certificate is the naturally of moore, and the certificate is the natural n

But even if the comage is above reproach, a demand for paper currency can scarcely fail to arise To keep a large amount of money in coun is to keep a bulky article which offers peculiar attraction to thieves on account of its retaining its value when it has lost its form, so that it cannot be identified. It is natural that any man who has no convenient strong-room will wish to deposit any considerable sum in some safe place and take a receipt for it . as one good com is as good as another, he will not ask the person with whom he deposits the coin to promise to give him back the actual couns deposited—a promise to nay " the sum " deposited will suffice Provided the written promise is in such a form that handing it over will transfer the owner's claim on the person who has the com to the new holder, it is evident that when the owner wants to make a large payment he will do well to hand over the morning instead of fetching out the com from deposit, and the person whom he is paying will do well to accept it. It will clearly be convenient in view of such possibilities that the person with whom the coin is deposited should make out his promises to pay in round sums-f20, froo. and so on, so that several may be mered together to make up any particular payment. When this is done, the promises or "notes" pass from hand to isand easily, become generally acceptable, are "paper currency" There as a demand for them because they are more convenient for keeping and paying large sums than gold, and still more than silver. They can be more easily stored and curried: each one is destinable by the date and more and so loss children and the state of the state of the conceasily destroyed by fire, but the honest bases does not cashly destroyed by fire, but the honest bases does not only

take advantage of that account.

The person with "issues" the notes makes he made and the potential of the person with the potential of the person with the pe

In some such ways redeemable notes get into circulation.

At this stage it is natural to say that the notes owe the fact that they contains to the fact that the second must redeem them if required. But something more than redeemability as required to make both merculaket; when anote a redeemed it is at the end of its cremiser of the second of circulating. They are kept crecibiting not because they are redeemable, but because other people than the second of the s

That redeemability, or "convertibility" as it is

commonly called, as not essential in order to make notes circulate a shown by the fact that notes which the issues will not a fact redoem and which are therefore called "monweithle" notes will circulate, and an inquity for the cause of their circulation shows it to be a demand, although often what is called "an arthematy circular domand," for notes

above it to be a demand, although other what is couldn't an articlearly created demand, if he nobe couldn't an articlearly created demand, for nobe circulation as individual, or company of individuals, or company of individuals, not company of individuals, not company of individuals, or company of individuals, or company of individuals, not individual to company in the scope for the contract payable on demand but only payable is not fairned without interest with not be accepted with the contract of the co

dual or company of the most undoubled slowers, as constituing use and first, would only be hangined as so mostituing use and first, would only be hangined as the substitution of the contribution as one possible have become thereughly such that the contribution of the contribution may constitute the taken array without destroyeng the states array without destroyeng the states array without destroyeng the states are constituted on the consequent feasured by the contribution of the co

gold coin for its notes on account of the insufficiency

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citis resources, and that it dud not think it could over creame the practice, the notes would have caused to be generally acceptable and consequently cassed to corculate and lost their value at one blow. But instead of doing that the Bank directors went to the Government and accourde the passing of a law restraiing them from redessing their notes. The public are supported to the contract of the every one scoopt Lard King long afterwards went on taking them just as before. The demand for them was unaffected, and the supply for the moment continued just, or nearly, as much limited as

In some such way an already existing demand for a convertible note can be maintained for it when wellinformed people, and even much larger numbers, know that its convertibility has disappeared Demand and limitation of supply account for an obsolete blue Mauritius 2d stamp selling for a thousand pounds : why should they not also account for a convertible note retaining its old value even when it is no longer convertible? The Government of Mauritius certamly does not promise to redeem the stamp at that or any other value and never undertook to accept
it as payment for postage for more than zd., but a dealer will give (1,000 for it because he knows he can pass it on for more. He will not, it is true, give £1,000 for it if he can only sell it for that sum, while any one selling five pounds' worth of goods in 1707 would take a 45 Bank of England note, although he could not expect to get more than 45 for it, but the difference is only the result of the demand for the five pound note being a demand for currency, whereas the of collectomama

It is perhaps impossible for private individuals

sonarately or in association to make a perfectly new usue of moon ertible notes without the assistance of Government, but such an issue can be made by or with the active help of even a rather weak Government This is possible partly because the public has been recustomed to regard the note currency as more or less arranged for by the Government and therefore to look upon anything which is allowed to circulate as being "good"-it trusts the Government to do with notes what it does with coin, to see that nothing "bad" is in circulation-and partly because the Government assumes the power of interpreting the name of the unit of account This power is

commonly called the power of changing the law of legal tender At one time, for example, gold com pay "one hundred pounds" can only be fulfilled (unless the other party agrees) by the tender of roo sovereigns or 200 half-sovereigns. Government may then enact that notes assued by some bank or by its own Treasury shall be legal tender, and forthwith every one who has contracted to pay "pounds" can pay in these notes It is true that if the issue is very unpopular, the mere making of it legal tender will not bring it into general carculation, because people will find means for refusing to deal with those who insist on paying in it, but the law certainly does help The power of the holder of a note to make his creditor accept it in payment is not exactly the same thing as the note being generally acceptable. but it goes far to create general acceptability, since

a person's reluctance to accept is largely overcome by the feeling that he can "pass the thing on." Governments have often been helped in setting their notes into circulation by the fact that they have forbidden private persons to assee convertible notes for small denominations which would have been readily accepted if allowed. When desirous of issuing inconvertible notes themselves, they pay no attention to the arguments against small notes and thus their issue satisfies a previously existing demand

After this preface about the nature and origin of "paper currency" we come to the question, what effect it has on the value of the unit of account, or, in

other words, on general prices.

We must be careful not to fall into the mistake of imagining that because a note-issue circulates at a par with com, as for example a five-pound Bank of England note before the war would readily exchange for five sovereigns, therefore everything in regard to the value of money and proces is just as it would be in the absence of the issue The extent to which notes take the place of com as commonly very much overrated Writers have sometimes supposed that every usue displaced an amount of coin equal to its own total amount less any reserve kept against it by the issuers This is very far from being true, since the superior convenience of notes for the higher denominations of currency-that is for sums above five shillings or perhaps something rather less-leads to a much larger quantity of currency (com plus notes) being kept on men's persons than if there are no notes Nevertheless it is true that all or most note-issues do to some extent economize or "displace" com, and thereby reduce the demand for it We may certainly take it that the general tendency of noteissues, especially when the notes are for small sums and therefore compete with coin much more than with other machinery for paying money, is to reduce the demand for coin, though they need not displace coin to their full amount

Where the com is restricted and has a much higher welne than its metallic contents, a note-issue, although it retains its par value in coin, may thus have a

considerable influence upon the value of money, reckoned as it in a thire-starked cole. For example, if at the time the Indua Government was bringen if at the time the Indua Government was bringen it or binals had been successful in issuing and leoping it to binals had been successful in issuing and leoping to the control of the control of the control of the tropes would have been greatly obstructed in consenance of the reduction in the demand for salver rupors. When the scheme had attained success used scanned to the reduction in the demand of a salver rupors. When the scheme had attained success such as a successful the control of the scanned to the reduction of the smaller control of scanned to the value of its metallic control.

But that is not all An issue, convertible or inconvertible, sithough circulating at par with the con tends to reduce the value of the com and rause prices even when that com is like the English soverreum before the War, always on a level with its metallic contents, or like the Indian rupes in the case rust imagined has already been driven down to a level with its metallic contents. It does so even when the coin may be melted down and exported because it tends to reduce the value of its metallic contents the demand for coinage being reduced. the demand for and therefore the value of uncomed bullion will be reduced, so that the meltability of the com will not altogether save it from being pulled down by the diminution of demand for it caused by the competition of the notes. This, however, though important in any large view of the subject, is negligible when the effect of a note assue confined to any one country is concerned . the bullion of which the value is depressed is a mundane commodity not likely to be very appreciably affected by any probable single change in the demand for the coin

of any one country

At this point the power of a convertible issue to depress the value of money and raise prices stops,

provided the coin may be melted and it or bullion may be exported. Money is still reckoned in a coin which is convertible into bullion, and therefore cannot go below its bullion value. The conditions of the supply of the convertible notes prevent the value of any of them from going below the value of the coin, and the coin cannot go below the value of its contents because the supply of it would then be reduced by melting.

That the supply of the convertible notes of any denomination cannot be so large as to cause a gap to appear between their value and that of the coin they promise to pay is so obvious as to scarcely need explanation. If there was such a gap any one who had one of the notes would run to the issuers to get it redeemed: the note by hypothesis is circulating at par: a pound note pays a pound debt and buys an article priced at a pound, and "the change" for it is twenty shillings, which all the arithmetic books agree in making a pound. Any gap between it and sovereigns would therefore appear in the form of a sovereign being worth more than a pound, and if a sovereign could be openly sold for more than a pound, notes would be rushed in for redemption by holders anxious to make a profit, until parity was reached again, or all the notes paid off, or the issuers bankrupt and the notes out of circulation. Convertible notes thus cannot be kept outstanding in numbers which would lead to their being less in value than the coin they promise to pay, and a fortion they cannot be issued in such numbers: it follows that no more can be put into circulation than will be compatible with their keeping their par value. The bankers may try to get more into circulation by paying all their own household bills with them, but if there are enough out already, this will only end in the tradesmen presenting the notes for redemption. It may occur to some banker before breakfast, when the intellect is weak,

that it would be a fine thing to encourage people to take his notes by offering them at a small discount, but after breakfast he will remember that this would cause an enormous demand for his notes, but that they would all be immediately presented for redemption so that more might be asked for and he would be ruined by the discount. There is, in fact, no possibility of the convertible note being below the value of the coin which it promises, and therefore it cannot drag the value of money—the unit of account of money—below the value of the bullion contents of the coin, when that coin itself is protected by free convertibility into bullion from being so dragged down. If the freedom of owners to do what they liked with sovereigns which prevailed in England before the War had been maintained, the introduction of an issue of convertible one-pound notes (formerly forbidden) with only an ordinary reserve against them, would doubtless have tended to drag down the value of English money, i.e. of £1 and all multiples and fractions of fi, and therefore to raise prices. But it would only have brought the value of the pound down along with gold throughout the world and only have raised English prices along with prices in the world at large. And a depression thus caused, though widespread, would be of trifling depth.

An inconvertible issue has more power than a convertible of depressing the value of the unit of account and raising prices within the country where

that unit is employed.

Inconvertible notes may circulate at the full value of the bullion contents of the coin indicated on their face and even at the full value of the coin when it is restricted so as to be worth more than its bullion contents. The testimony of history is conclusive on this, and the fact is easily explained by the ordinary principle of demand coupled with adequate limitation

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of supply. If the Government or other issuess are able to prevent the manufacture, or forgery as they supplied to the by other persons, and it they find the process, and they supplied to the by other persons, and they can be considered to the supplied to

But though they need not be any greater in total than convertible notes, inconvertible notes may be so, and even when the com is convertible into free bullion, they can be issued in sufficient amount to press the value of money down below that of the bullion contents of the com indicated by the unit of account They can, for example, be issued in sufficient quantities to bring the value of the Enghah nound below that of the gold contents of the sovereign, the American dollar below that of the gold contents of an American gold dollar, or the Indian rupes below that of the contents of the Indian silver rupes. That this kind of thing has happened in past history is generally admitted, but when it happens. it is generally unperceived by the mass of the people and strenuously denied by many of those who ought to know. They are so accustomed to expect changes

their money prices that they cannot understand queeral pictor being higher because the measure of price has been changed. Yet the process really simple enough. The whole of some issues of notes and a part of most may be absorbed in increasing the stocks of currency held by persons and institutions. The British Government much takes stored in walks as coverigin for every

of the value of particular articles to be reflected in

pound-note which it issued, or private individuals might have been so pleased with the picture of the Houses of Parliament on the back of the notes, or so patriotic, that every pound-note issued was promptly framed and hung on front parlour walls. Then no additional buying of things would have taken place or been attempted in consequence of the issue. the first of these two examples neither the British Government nor the people would have had a penny more to spend than before: in the second the Government certainly would have more to spend, but the people would have that much less, and the two together would have no more to spend than before. But this is far from usual. A great part of almost every issue and sometimes the whole of it goes to increase the aggregate amount of money which people and Government together can and do spend on things and services. The notes are exchanged for something: the issuers buy things and services with them or lend or give them to others who do. They may, if a Government, go through the farce of giving them in exchange for other money and then spending that other money instead of spending them directly, but however the process may be disguised, it results in more money to spend and more money spent. The perfectly natural consequence is a rise of prices. Where the notes are convertible into coin and the coin is convertible into free bullion. this rise of prices will not include a rise in the price of bullion, since the value of the coin and bullion must stand on a level. The convertible notes cannot be issued in large enough quantities to cause a gap to appear between their value and that of the bullion to which, through the coin, they are nominally equal. For example, given convertibility of coin into free bullion, it would be impossible to issue as many convertible notes as would bring up the amount of

spendable money far enough to raise the price of fine gold from the par price of \$4.25 to \$5.75, because long before that happened, every one who had notes would be running to the issuers to get sovereigns

with them . the sovereigns thus obtained could be turned into bullion, and so give the holder a larger amount to spend than if he spent his note. Incorvertible notes, not being subject to this "automatic check," may be assued in greater and ever greater quantities, so that they can cause a gap to appear between their value and that of the bullion to which.

through the com, they are nominally equal

At first sight it is probable that most of us would expect the gap to appear m the form of a note passing for less than its nominal value, say a pound-note passing for £0.8 or 16s. and a dollar-note for \$0.80. This does not happen, and nothing really suggests that it should happen. The pound-note was, and continues to ordinary apprehension to remain, "a pound" it will buy a thing priced in a shop-window at "£x," and it will pay a debt of £x Failing the note going to a discount, we should perhaps expect the sovereign to "go to a premium," and begin to circulate at some value exceeding £x, say £x 25 or £x 5s This might happen if people really preferred sovereigns to notes, and if they could shift the premium as fast as changes in the price of bullion took place, but in fact that could not be done the currency value lags behind the bullion value, and consequently the coms are not kept in circulation

at higher prices, but are "driven out," as it is usually said, by the notes It is not really a case of their being driven out, but of their being attracted out into the bullion or export market by the premium obtainable there and not obtainable so long as they are used as currency. Jewellers and bullion dealers will give more for them in "money," that is, in notes, than they will fetch as currency, so that they "desprear," the heaviest going first, and the others following as the price of bullion rises Thus the increase of inconvertible notes when

carried, as it can be, far enough causes a rise of the nnee of bullion

It has not till lately been well understood, even by

experts, that when the com is not convertible into free bullion, convertible notes may be issued in quantities just as great as inconvertible notes and with exactly the same result. Ricardo came near hitting on the fact. He poticed that during the suspension of cash payments by the Bank of England it was a puzzle to many people how the means ertible note could be of less value than the gold it should (through the gold com) represent, although as a matter of fact, when they had a cold com they found it would only circulate at the same rate as prevailed before the suspension of convertibility 1 He explained the matter quite correctly as being the result of the legislation which prevented law-abiding people from doing what they bled with the coin there were alties against melting and exportation who the gold coms, so long as they were in the hands of law-abiding people, from being used for any purpo except currency, while for that barticular burt has just been shown, the com cannot in practice be used at a value higher than that of the unit of account supposed to represent it. But Ricardo and subsequent writers regarded the point as of little importance, because it did not occur to them that a wellforced denial of freedom to deal with coin would be sufficient by steelf to allow over-issue to take place without the abolition of the convertibility of notes into coin. Recent experience has shown this to be

1 "The High Price of Bullion a proof of the Depressation of Bank Notes" in Ricardo's Works, p 250

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perfectly possible. From August, 2014, to April. 1925, the British Treasury's £1 and 10s. Currency notes were legally convertible at the Bank of England and as a matter of fact were converted for sufficiently insistent demanders who knew enough not to fail in the pint poss examination to which they were subjected But during that period exportation had been made impossible, and the using of the com for any purpose except currency was forbidden, so that the person who went to the Bank and received a sovereign might just as well have got a round disc of cardboard with "legal tender for AT" on one side and Sir John Bradbury's head on the other or better still be might have stayed at home and spent his fx note like other people The Currency note could be converted into a full-weight coin, and was therefore described as convertible, but it was not convertible into free gold of the wordt of the sovereign, since the sovereign could not be converted into free gold.

Thus convertibility of the note into coin is deprived of all its virtue when have against melting and exportation of the coin are present and effective. Convertible notes can then be issued without check just like monvertible notes, and consequently can drag down the value of money below that of the bullion contents of the coin and give rues to the same phenomenon, a new of general prices indusing the price of bullion.

When the issuers of moonwethle notes or notes in

which are only convertible into monvertible comseen them so fresty that they will exhange for loss than the par amount of bullon, when, that s, in other word, the parce of bullon mess above the par pice, so that the note will no longer but year material for the coin which the note represents, the unit of account ceases to be a cone or quantity of metal and becomes a printed symbol on a piece of paper the supply of which depends on the moderation of the issuers The pound stering, for example, in multiples and fractions of which all proces in this country are reckoned, coses to be 123 grains of fine gold and becomes simply " f_{λ} " (or one-fifth of f_{λ} and so only when printed on a genume note, and the amount of these symbols printed 1s determined by what the Treasury thinks fit

When the make of enemy as these surrendered to the discretion of Government seasons, it usually goed own and the general level of process goes up rapidly. The surrender usually takes place at a time of financial convertability as to remove the necessity the Government or others are under of findlings of the promuses to pay something equivalent to certain definite and to the contract of the contr

prospenty which "feetry of money" it first creates Many other pessens profit enormously by the nee in the poose of the things they sell. So there is a strong has in infliential quarters in favour of more and more notes, which leads to many arguments in their favour.

I At first when the rise of prices is not yet very perceptible, it is usual to deny that general process have now. This contention soon disappears, as the issue goes on and process five fathers.

have resen This contention soon disappears, as the issue goes on and princes rise further

2 Next comes the contention that though prices have risen, the currency is quite sound because it is still on a level with bulkom—the price of bollion has not risen. This is untrue, but usually difficult to disprove, because the time is probably one of con-

siderable confusion: transport may be interrupted by warfile operations so that the price at which gold may be bought from abread is difficult to scortain, and the issuers may have taken the preaaution of forbidding few transactions in bullion at home. But soon that does not hatter, because, as the issue goes to be dense.

3 Sometimes it is contended that a rise in the price of bullion is due not to a depreciation of the money but to an appreciation of bullion. This covers two different contentions between which confusion is frequent:

(a) It may mean simply that bullion is higher in value relatively to commodities in general, while money has preserved its old relation to them. As the usue gets larger and larger, this too has to fade into the limbo of discarded arguments. But supposing it were true, it would only be by accidental coincidence, unless the issue of notes was managed with the distinct aim of securing a currency which would always keep the same level of value and preserve a complete stability of general prices. Regulation with this end in view is oute concervable, and has often been advocated by high authority. It must be noticed, however, that those who put forward this defence of an actual assue are often persons who would be the loudest in their protests against the desirability of the adoption of any scheme for such regulation. (b) The other meaning of the contention that it is

of the adoption of any scheme for such regulation.

(i) The other meaning of the contention that it not noney which has depredicted but bullion which has appreciated, is that the gap between the value of bullion and that of the unit of account and also the general nee of prices are to be ascribed to smeltling that has happened to bullion acid ordunay commodities, and not to what has happened to money, and therefore the unit of account has of fallen in value.

silvangs it will help less than before. The asserter it thus a that it majnes that whose can and must proparly be measured in shoot cost of prediction mixeds of in commodulates and servores. He das a title it has become more difficult to get gold and other between the service of the service of the service of the and the higher prece in the unit of account meeting and the higher prece in the unit of account meeting preduced by the same. But we do not measure, and we do not want to measure, value in inhort-cost of production; it we do do no measure, it everything in swap or primitive times when the productiveness of ministry is very blow would be of entroness white.

that it is selfom, if ever, true is suggested by the fact that it has almost always been put forward as more of the defences of over-seas, and it seems unlikely that inconvertibility and a decline in the productiveness of industry so often go together 4. The more acute Government spologists content themselves with alligning that the issue is only one

The most scatter to votations a prospect content of the most very strict alloging that the issue is only one of two or more causes tending to raise prices. The rare always many causes tending to raise prices, so that this is sure to be true, and it does not in the least destroy the force of the proposition that the issue tends to raise prices.

- We now come to what is at once the most

5 We now come to what as at once the most mandrous and the most changerous of all the arguments in favour of increasing issues This is that the assurab have no control over the issue and that it is "auticustic," as it only takes place when the notes to a genimic elemand and not forward on prophs." It might as well be clasmed that the issue of pocketmoney to a child is not under the control of its parents because it is automatic, only taking place when the money as saled for Od-\$ep persons.

MONEY

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when first established, might have been paid for some years without any addition to taxation or debt, by giving the pensioners a one-round note every four weeks, if no reserve had been kept agamst the notes: would the pensioner's genuine demand for the notes have justified the statement that the issue was automatic and the Government had no control over its amount? If an extra hundred millions warbonus (or peace-bonus for all the difference it makes) were paid by additions to the Ar and Yos currency notes of \$2,000,000 a week, would there not be a genuine demand for these additional notes? If the Government hires schoolen's at £2 a week to watch a simple machine and defrays the expense by giving each of them two new & currency notes which are clear additions to the amount already outstanding can it be said that these girls do not exercise a genuine demand for the notes?

Every monopolist producer controls his sales, and the Government manufacturer of notes is no excention. The monopolist of an ordinary commodify can limit his sales in one of two different ways, first by offering a fixed amount of the product for sale by auction, and so letting the consumers determine the price, and secondly, by offering to sell any amount that may be inquired for at a price fixed by himself.

The second is the usual method it limits the total sold in the long run just as effectually as the other. If 100.000 bottles of some patent medicine can be sold at 2s. each, while xxx,000 could scarcely be sold at 2s. 6d. and only 70,000 could be sold at 3s. 6d., it is all the same whether the monopolist says he will sell roo oon bottles a year for what they will fetch. or says the price is 3s and any one who likes can have a bottle at that rate Just so with notes. The monopolist producers of notes control the issue either by saying they will usue such and such an amount,

or b. fixing the price and selling as many as are demanded at that proce

The first method of huntation is easily understood the producers enforce the lumitation simply by not

printing notes (and not allowing any one else to print them) beyond the prescribed number. The second method is enforced when notes are convertible into

ballion, because that, as has been explained, fixes for them a price or value in bullion below which notes cannot be resued. When convertibility into bullion is absent, the price might be fixed in some other commodity than bullion—in lead for example, or rubber of some well-known quality. The usuers

might be bound by law to erse a certain number of pounds avoirdupois of lead or rubber in exchange for any note presented to them for redomption. But this would be re-establishing convertibility in the form of convertibility into lead or rubber instead of convertibility into bullion, and gold certainly will not be dethroned to make lead or rubber or any other single commodity reign as the standard of value. The only standard possibly superior to bullion is commodities in general Actual conver-

tability of the note into commodities in general is impracticable—the Bank of England could not be asked to hand over the counter a basketful of the commodities represented in an index number. But. as we have seen, notes may circulate on a par with gold although they are not convertible into it, because the issuers may sufficiently limit them by watching

the price of bullion and issuing more notes when that falls and fewer when it rises. So notes might be made to circulate on a par with a collection of commodities such as is represented in an index number of prices although they are not convertible into that collection, because the surrers mucht sufficiently limit them by watching the prices of these commoMONRY

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dities and issuing more notes when they fell and fewer when they rose. This is, however, the very last thing that in practice issuers, in the present state of sconomic instruction, are likely to do. They usually begin by adopting the exactly opposite principle because, incredible as it will appear to future ages. they think "when prices are high, more currency is required " Turn this round, express it in another

way, and you have "when the value of currency

is low more of it is required" and currency is thus made a striking excention to the general role that the falling value of an article indicates that additional supply of it is becoming less required. It is of course no exception at all When money is reckoned in gold and more gold is produced, the value of money falls (general prices rise) and this indicates that additional supply of gold is less required when money is reckoned in notes and more notes are

produced, the value of money falls (general prices rise) and this indicates that additional supply of notes is less required When more coal is produced, the value of coal falls, and this indicates that additional supply of coal is less required. Of course, if the coal-producers or

the gold-producers accept a lower price for their product, they will find, down to a very low limit, plenty of "genume demand" for it, but only because the demand has extended to take advantage of the lower price, and so it is with the note-producers: if they will accept smaller quantities of commodities and services in exchange for their notes, they will find down to a very low lmut plenty of genuine demand for them, because they are cheaper The only difference between coal and gold and notes is that coal is never money, while gold sometimes is, and notes always are in consequence of which the value

required in exchange for coal is always called its

" price." the value required for gold sometimes is and sometimes is not called its "price," and the value required for notes is never in ordinary language called eir nace The feeble reply of the apologists to some such

criticism as this is that in fact the rise of prices and wages comes first. This would be perfectly immaterial if it were true, which it probably is not If it were true, it would only mean that the increase of the note-issue was anticipated. When a Government has assued an additional £2,000,000 a week for

months together, it is not unlikely that all business will be done on the assumption that this will continue. People may consciously or unconsciously expect a fall in the value of notes (a rise in general prices) just as well as they expect a rise in coal or jam. When issuers have once adopted the abourd maxim

"Higher prices issue more notes." their country finds itself in what puzzled critics call a "vicious circle "---notes are increased, prices rise, notes must be further increased to "carry the rise," prices rise still further, and notes must be still further increased and so on Ad suffertism? No certainly there is always an end to it. Often the real or fancied emergency which led to the suspension of convert-

ibility disappears before the process of bringing down the value of the notes has gone too far for recovery, and with the disappearance of the emergency much of the bias in favour of that course is lost, and a return is made, perhaps alowly (as in America after the Civil War), perhaps painfully (as in England after the Napoleonic War), to a bullion standard. Two great mjustices have been committed. the first to those persons and classes who suffered by the fall in the value of money, and the second to those who suffered by its subsequent rise. The two do not cancel each other, since those who gain by the second 6a MONRY

an not the identical persons who lost by the first and two evers. Institutions, too, sife loss, though we can scarcely speak of pastice in their case 'one of the greatest loses's issually the fistar in its componia capacity. The triling gaun made by issuing interest from notes instead of interest-bearing founs in far more than set off by the higher prices which the State bearing the contract of the composition of the contract of the composition of the contraction of delt far exceeding in magnitude what would have been the whole cost of the commodity large—higher prices which led to delt and services obtained, if they had been paid that all prices prices when the contraction of other the exceeding the contraction of one than of the commodities and services obtained, if they had been paid for at the prices prevaining before and after the period of impression.

Unless a halt is called the end comes with a crush In saving above that increases of the supply of coal or gold would always find plenty of demand at sufficiently reduced prices "down to a very low limit," we had in mind that no commodity is wanted m indefinite quantities. However the demand may extend, it will not extend indefinitely, and with every commodity there is a point beyond which no more will be required, however chean the commodity can be got. It would take a considerable mcrease in the supply of coal to London to brang its price there down from say sos to ros a ton, but if a further increase of supply brought it down to 2s., it is oute certain that a very little increase on the top of that would bring it down to almost nothing Nobody wants indefinite amounts. So, too, with gold, perhaps even more clearly: very cheap gold would be unsuitable for currency and for ostentations ornament, so two of the principal sources of demand for gold would cease to exist if gold were found in very large quantities. So it is with notes. As long as their increase is sufficiently slow and the total

amount not "urreasonably" large, no one thusic of questioning their utbity as currancy, and there is picnty of demand at the lower price at which they are put on the market. But if the increase goes on, somer or later there comes a time when the increase is or rapid or the total outstanding becomes so large that even "the public "begins to wonder "what all his means." and when that happens distrust soon

as to repn. or use to obtain any expension of welches so sage, what all this mean," and when that happens distruct soon set in, the general acceptability of the notes suddenly cases, and they become absolutely worthless some other currency as found to take their place. The conclusion to which this section has left us fat where the unit of account is a note, the value

of money and the general level of proces depend on the will of the usuers, and that the usuers may, and probably will, if not restrained, bring the value of money down so low and drave praces up so high that confidence in the notes disappears and some other unit of account, such as corn or bullion, has to be used. The conclusion of the whole montry is that the value of money, which is the same thing as the general level of prices regarded inversely, is not an anomalous or even very peculiar thing, but depends in the same way as the value of other commodities upon the various influences which affect demand and supply and that if peoples dishke the rise of prices which is another name for a fall in the value of money, they should insist on adequate limitation of the supply of money

This is a conclusion which has long been familiar to economists, it is time it was grasped by the men who pride themselves on being practical

PART II SURTHER ELUCIDATIONS

§ I. The Supply of Currency and the "Quantity

The sad experience of unlimited currencies which followed the writing of the First Part of this book do not suggest the desirability of abandoning or even modifying any part of the doctrine taught therein. but they do suggest that further elucidation of

several matters is required Some readers have asked, and others probably will ask. "What is the relation of this doctrine to the Quantity Theory of the value of money?"

It includes the Quantity Theory, but contains something more. The Quantity Theory, like so many other statements in economic hterature, insists that X "depends on A, other things being equal or remaining the same," regardless of the fact that it would be equally true to say "X depends on B, other things (including A) being equal or remaining the same." It is possible that there may be ten or a thousand things on which X depends, and of each of them it is true to say that it depends on that one when paribus." Writers on economic questions frequently overlook this, and imagine themselves at variance about fundamentals, when m fact the only difference between them is that one is more struck by the importance of A and therefore says " X depends upon A, other things (meluding B) being equal," while the other is more impressed by the importance of B, and therefore says "X depends upon B, other things (including A) being equal." The first writer then goes about recruiting adherents to the "A theory of X," while the other seeks support for the "B theory of X," though all the time the two theories are really not opposed to each other, but are only two parts of the same theory, each of which is taught by an expositor who thinks less of the other part.

Just so the Quantity Theory of the value of money singles out quantity as the thing on which the value of money may be said to depend, other things (including Demand) remaining the same. It would be very astonishing if this were not true, since it is true of every commodity other than money that its value depends on its quantity, other things (including

demand) remaining the same.

Certainly in the case of other commodities we are in the habit of speaking of "supply" rather than of "quantity," but the difference in wording does not seem to be important. The stock of some things (such as milk, or even wheat) on hand at any one moment is so small in proportion to the annual produce of the article, that we think of the stream of produce as furnishing the supply. Of other things, such as land, buildings and railways, the annual production is so small compared with the stock in existence at any one moment, that we think of the stock, rather than the annual produce, as furnishing the supply. In regard to this second class, we talk readily of the supply being increased when we mean that the quantity in existence has been increased. A country is "well-supplied" with railways or a town with a particular kind of house when the quantity of these things is great. Currency is one; of the durable instrumental goods, such as houses, of which in ordinary times the stock at any moment is.

very large in companson with the annual output, so that it is not surprising that in its case "quantity"

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has been used instead of "supply." Given a certain demand, mcrease of the supply or quantity (whichever is the more appropriate word in the particular case) of any article reduces its value, and currency is no exception. The additional

currency is usually given by the producer (or issuer) m exchange for commodities and services, and his coming in as a new and additional buyer of such

commodities and services raises the price of these things and diminishes the value of the currency which he is offering m exchange Whether the currency is gold or paper this is equally true. The gold mine-owners and workers turn their gold into currency and spend it on the things they want. A government involved in a war prints legal tender notes and buys munitions and military service with them. On the return of peace, it is true, it does not riself buy with the currency, but gives it away in doles and subsidies, yet this makes no differencethe spending of the additional currency still takes place, as the recipients buy what they want with it Even if the new currency is only issued by way of loan, the effect is the same the borrowers are then

the new and additional purchasers. Sometimes it is objected that the demand for money is, unlike that for other commodities, inexhaustible, so that the issue of additional currency will not cause its value to fall, since the new issue will always be met by an additional demand for currency. But this objection is absolutely unfounded. It arises from neglect of the distinction nomited out by Sidgwick between the kind of "increase of demand" which raises price and the other kind

which he calls, very aptly, "extension of demand."
We often say that the demand for a thing has

increased when we only mean that people are taking more of it because they can get it cheaper. It is obvious, however, that it is not this kind of increase of demand that we have in mind when we discuss the effect of increase of demand upon values. could not say in the same breath that increase of demand for houses raises the value of houses, and that a fall in the value of houses causes an increase of demand for them. We can, however, say in the same breath, that increase of demand raises the value of houses, and that the fall of value extends the demand for them (or, vice versa, a rise of value. contracts the demand). No more in the case of currency than in any other case does the increase of supply defeat itself by causing increase of demand. It only extends demand, inducing people to hold more currency because the fall of value makes it possible to hold larger amounts with equal sacrifice and necessary to hold larger amounts to secure equal convenience.

Granted that the Quantity Theory is right in asserting that increase of quantity, demand remaining the same, will raise prices and diminish the value of currency, the next question is "How much will any given increase of the quantity diminish the value of the currency?" This, of course, depends on what is now called by economists, following Marshall, the "elasticity of the demand" for currency. The demand for a thing is regarded as being the more clastic the more it will extend on any given fall of price, or, to put the same thing in what for our present purpose is a more useful way, the less difference any given addition to the amount put on the market will make to the price, the more elastic is the demand. If the demand were such that an increase of supply would always cause an exactly reciprocal fall in the value of the article, the elasticity ES.

of demand for the article would be said to be always "equal to unity." So if the elasticity of the demand for currency were always "equal to unity," doubling its quantity would just halve its purchasing power and just double the prices of other commodities, however often the doubling was repeated.

Now, it has very often been assumed that this is actually the case, without any major why at should be so. Though ever since the time of Davenant in the seventeemble century of has been a commonplise that a drop in the supply of a secessary of life below that a drop in the supply of a secessary of life below that are proportion to the deficiency, popular apprehension has never quate resonated titself to the fact, and persists in thinking it unreasonable It is somehow supposed to be "quite natural" that the processional rise in proportion to the deficiency, but processional rise in proportion to the deficiency, but of ourself is no pratification, of the neglect to ask why the elasticity of the demand for money should rise.

be assumed to be equal to unity. When the question is asked, the answer is not very difficult. The peculiar use of currency suggests it at once. Each individual holds his stock of currency m order that he may be able to buy a very definite quantity of commodities and services before his stock of currency is replenished. If he is well-to-do and receives his income through his bank, his stock of currency has to hold out till be draws another cheane to "self" to replenish it If, without any alteration m his real wealth, prices double, he will (so far as he s not the creature of habit nor deterred by the weight or bulk of the currency) double the amount of each cheque to "self" (mstead of going more frequently to the bank; and hold double as much currency as before Similarly, m the case of workman whose holding of currency depends on his weekly wage, if his real carnings (reckoned in commodities and services) are unaltered, so that his wage will buy the same collection of things as before, his wage and his holding of currency must be doubled when prices are doubled. From this it appears quite plainly that the average holding of currency at any time must normally equal in value a particular collection of goods and services. It is only simple arithmetic to infer that the aggregate holding of currency, alias the "quantity of money," must normally equal in value a certain definite aggregate of commodities and services.

This is now so well recognized that it has been made the basis of prognostications of the future which have been realized in practice. When we have found that some rapidly depreciating currency, though nominally immense, has worked out at a ridiculously small sum in pounds or dollars, we have said, "Of course this is an impossible situation; either the value of the currency will go up again or more of it will be issued," and we have turned out

right.

But while it is reasonable to assume that we should expect the elasticity of the demand for currency to be equal to unity, we should beware of accepting the doctrine too readily. Great doubt is thrown on it when we reflect that if it were universally true, issuers of legal tender could go on buying goods and services with new issues indefinitely. The process of doubling the currency in, say, the first month, would indeed gradually bring the purchasing power of the unit down to one-half, but as the issuer at the beginning would be buying very near old prices, and only at the end at the new prices, he would have acquired goods and services worth over three-quarters of the value of the total of the old currency. By another issue equal to the old currency he would

only get half as much, but there is nothing to prevent him issuing twice as much in the second month, four times as much in the third, eight times in the fourth. and so on, and then he will be able to go on acquiring the same amount of commodities per month indefinitely. Experience seems to show that the unit of a currency falls to zero in value long before the supply of the currency reaches infinity, and helievers m the doctrine have been unable to explain why. They have contented themselves with eluding the point by means of propositions such as, "however many units of currency may be issued, so long as they really circulate, they will always have some value. however small " No doubt, but is it not equally true that so long as they have some value they will continue to circulate? They will stop circulating when they lose all value. The explanation seems to he in the fact that human mtelligence anticipates what is coming. When it is seen that the value of currency is steadily falling, people see that it is more profitable to hold goods than currency, the demand for currency fails to extend in proportion to the enlargement of the supply, and its value consequently falls more rapidly. The assuer ver likely redoubles his efforts to keep up with the fall by issuing new currency at a still more rapidl increasing rate, but all to no purpose-he is bound to lose the race, and the reason is that the elasticity of demand as less than muty.

In the convene case, that of reduction in the supply of currency, there is also reason to expect an elasticity less than unity. As general prices fall owing to the reduction, people will endeavour to protect themselves by displaying greater readuress to part with goods and services, and less to part with currency, and anterspation will thus cause the fall of general prices to outrum the dimmunition of currency. Pushed to

the extreme limit, the policy would put a stop to the creculation of the currency, as it would all be loarded, and exchanges of goods would be made by herrer. But things are never pushed so far, because long before that happens substitutes for the creating currency are slavay mirroduced and check the rise of purchasing power. For example, as soon as a real to make of a worth more than 132 secures of fine gold,

as to make f, worth more than 173 graus of fine gold.

abstitutes for it, in the shape of soveregens and halfsoveregens brought from South Africa and elsewhere,
would began to come not use

Hence the doctrine of the elasticit, of the demand
of currency being egoal to unity, though it may be
usefully put forward as a first approximation for
expectation proposes, must not be taken as universally

true It certainly is not when rapid change of quantity and intelligent anticipation of the future exist.

§ 2 The Demand for Corrency.

Early in the preceding section I pointed out that

while the supply of questly consumable stricts at which the annual output is large compared to the stock-in-band at any moment can most convenently be taken to be the peroducial output, we when we have to deal with things which last a long time and harderior mo ordinary language are said to be 'used' rather then "consumed," we often, as, for metance, in the case of lowes, treat the quantity me existence

therefore m ordinary language are saud to be "used." arther than "consumed," we often, as, for matance, and the case of houses, treat the quantity an exatence rather than the perceival output is the "upply". A corresponding distinction exist in "upply". A corresponding distinction exist in "upply". A corresponding distinction exist in "upply". A corresponding distinction and farms in ordinarial. The demand for house search and farms in ordinarial contents of the consumer of

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to "occupy" or use farms and houses, both new and old Under Supply we found that currency belonged to the class of things of which the supply can conveniently be taken to be the quantity in existence, and now, under Demand, we may think of currency as being demanded by people who want to hold it rather than to consume t.

This idea of the demand for currency coming from the holders runs through the whole of the First Part of the present book, and is most important to the argument put forward there. But it appears very strange to all who have been brought up to believe that the demand for currency is furnished by the number and amount of the transactions effected That behef seems to me to be exactly equal to a belief that the demand for houses comes not from the people who want to live in houses, but from people who buy houses and sell them again forthwith The effective demand for houses evidently comes from those who want to hold houses: even the speculator wants to hold for a time Mere "activity m the house market "-a little more changing ownership than usual—only involves an increase of demand in the same sense as it involves an equal increase of supply which cancels it. Whatever may be said about the actual use of the terms, it is clear that the demand which is important as affecting the value of the houses is the demand for occupation Similarly, more transactions for money-more purchases and sales of commodities and services-may m a sense he said to involve morease of demand for money, but in the corresponding sense it may be said to involve an equal increase of supply of money. the two things cancel The demand which is important for our purpose is the demand for currency, not to pay away again immediately, but to held Tust as you are a less important demander of houses

of you occupy a fr.000 house than if you occupy a \$2,000 bours, so you are a less important demander

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reselvet than if you keep fro

of currency if you keep on the average /5 in your The usual talk of "velocity of circulation" is only a clurry attempt to express this truth. If we say that additional sales and purchases may be effected vathout elteration in the value of money provided the velocity of its circulation is increased, we may equally

say that additional transfers of houses may be effected without altering the value of houses, provided the velocity of the circulation of houses is increased We do not reve that, because the intuity of it would be obvious. It is so much sampler to disregard both the transfers and the velocity of the circulation of

houses and come at once to the ultimate demand. the demand for nouses to held It may be said that, in addition to the demand of

persons and institutions for currency to hold, there is also sometimes a demand by banks and governments for currency to destroy, as, for example, happens when the bank or the treasury is reducing the aggregate amount of notes outstanding. But as this

demand always, or almost always, comes from meticutions which have usued quantities of paper and subsequently repented, it is usually regarded as simply reducing the supply instead of increasing the demand In favour of regarding the institution as a demander, it may of course be said that the fact that it acquires the currency to burn rather than to hold is immaterial, since it makes no difference whether the currency acquired is held or burnt, provided it is not ressued. It is, some one may say, all the same whether notes which have been withdrawn have been cancelled or are still held by the issuers uncancelled. But this is not omic true

since, if the notes were still held, they would annear

in the total stock which we have agreed to call the supply, whereas, having actually been destroyed, they no longer appear in the total. Consequently, it is more convenient to follow ordinary usage in this matter, and speak of banks and governments which buy up and their memories are foreign the supply. The analogous case in regard to houses is when houses are longith up by some person or multitude for demolition. We think of this as causing a reduction of supply statler than a microses of demands.

To clear up our ideas about the demand for currency, let us think of a few obvious causes of increase and decrease of demand for it.

The most obvious cause of increase of demand for a currency is an increase in the number of persons who use it At a very early are—often at his or her christening-each new member of the human race begins to hold a small quantity of currency, and the child of six sometimes has more than his father or mother There are plenty of examples of increase of demand from this source having been sufficient to cause a noticeable increase in the value of a currency which is limited in amount—the Indian rupes after the closure of the Indian mint and the American greenback are often quoted, and the general increase of gold and silver-using populations, though it has not actually raised the value of gold and silver currencies, has at any rate obviously prevented them done. The great rise of prices after the Black Death may be given as an example of the converse effect of diminution of population in diminishing the demand for, and consequently the value of a currency

The introduction of anything which economizes currency, i.e which makes it unnecessary for people to keep so much currency by them on the average, tends to diminish the demand for currency. The banking system is the most important agency in this respect How and in what degree it economizes

currency and tends to ruse prices must be postponed to the next section A coarge in the distribution of wealth may cause a change in the demand for currency. If the rich

and banking portion of the people becomes richer, it does not keep appreciably more currency in its pockets, but increases its balance at the bank But of the poorer non-hanking portion becomes richer, it does accumulate currency, not only in its nockets. but also in money-boxes and muss on the chimney-

nece and other strange places Innumerable are the changes of social circumstances which may lead to greater or less economy of currency and consequently less or greater demand for corrency. The calling up of men for military service. and subsequently the large removal of women from their homes for munition-making and other purposes during the recent war, greatly increased for the time

the demand for currency, because the members of families, when separated, found it convenient to keep much more currency by them in the augregate than when they were living at home and together.

Like the demand for other things, the demand for currency is liable to be varied by the miscalculations

of mankind about the future. If we were all levelheaded prophets, fluctuations of prices would be smoothed out. There would still be slowly rising and falling tides, but waves would disappear. But m fact we all foresee wrong, and our individual mistakes do not balance each other-we foresee wrong to some extent in unicon One year we agree in overestimating the potato crop, and the pext year m

under-estimating it when we over-estimate it, our willingness to buy early is less than if we foresaw correctly, and for the type demand is kept below what it would be if prices were kept as stable as possible. The same thung happens with currency, though at is not nearly so obvious. If there is a predominating impression that process in general are going to rase, there will be a predominating includency to hold commontations for the rase, which will itself rase prices at once levery one can see this, but resulting an artise of prices, at the same thing as a diministion in the demand for currency. Currency becomes the depreciating article which people im general are less willing to hold. Vice versa, if it is generally expected that prices will fall, most people are more eager to get rid of goods and are more willing to hold currency.

We must not expect to find evidence of increased or decreased willingeses to hold currency in actually increased or decreased stocks of currency. If the total is a fixed amount it cannot vary in that way. The evidence is to be looked for in the fact that more or less goods are actually being given for the unit of currency. We can have an increased and a

The detinent in the text seems at first agift to be contributed by the first sensition, as in Germany in Contractive the contributed by the Contributed by the Contributed by Contributed

decreased demand for houses without finding any alteration in the number or size of houses The effect of misguided speculation for the rise or fall of the value of a currency is disguised, so far as internal speculation is concerned, by taking the form, in each individual case, of speculation for the fall or rise of particular commodities. Very few persons grasp the idea of a rise and fall in the value

of their own country's money, and the Money Market is a place where you deal in loans, not in money. We have not yet risen to the height of having a Currency Market in which we can buy and sell future Board of Trade, Statust and other Index Numbers But direct speculation in the currency of other countries is common enough, and is often ill-informed enough to cause great disturbances of values, instead of smoothing them down Soon after the war, the editor of an Athens journal was unable to so to a certain restaurant there because the waiters worned him with questions about the

future of Austrian crowns which they were holding When the British troops first went to Cologne, they bought German marks because they saw that the mark was "lower than usual" It is known that many miliards of the depreciated currencies are held by foreigners Such holding is, of course, a pure addition to the usual demand for currency, and tends to maintain its value for a time Eventually. however, the foreign holders decide to sell, and their decision is much more likely to come at a time when

it will make a fall more precipitous than when it will moderate a rise. This ignorant speculation of foreigners has been the cause of many violent fluctuations of currency values and is a great support of the doctrme that they "depend on confidence." About that we need not say more than that the price of sugar also is affected at any moment by people's

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views of what it will be in the future, but we do not say that "the price of sugar depends on confidence." The supply being taken as fixed, how much will a

given increase of demand send up the value of currency? The question is not so often asked as the corresponding question, "How much will any given addition to the supply raise prices?" because we do not feel ourselves able to measure additions to the demand as easily as additions to the supply But one example seems workable Suppose that to a country with a particular currency of its own there is added a new province one-tenth as large and with exactly similar characteristics, which has just, by some accident, lost all its own currency, and that the annexing country creates no additional currency. but allows the new province to supply itself as best it can. We may look on this as providing, after some mittal disturbance, to per cent. of additional demand. The people in the new province, wanting a medium of exchange, would have to give peor in the rest of the country commodities and services to induce them to part with some of their holdings of currency; these sales would send down the prices of commodities and services, and correspondingly elevate the value of the currency. There seems reason to believe that when thmes had settled down the rise in the value of the currency would correspond exactly with the increase of demand. If prices fall from eleven to ten, and fro consequently buys as much as fix did before, people will find it convenient to hold only fro of currency when they held fre before. So to induce the old part of the country to part with one-eleventh of its stock of currency, a reduction of prices by one-eleventh will be necessary and sufficient This supports the doctrine that in the absence of anticipation of future change the elasticity of demand for money is "equal to unity."

§ 3. Banks and Prices.

Some writers contend that bankers control prices, forgetting apparently that prices existed and rose and fell for ages before there were any banks. It may therefore be well to recapitulate and emphasize the doctrine taught in Part I about the relation of

banks and banking policy to prices.

Modern banking began to be important in this respect when people first found it convenient to hold bankers' notes for sums of money instead of gold and silver coins. The practice economized the metals, inasmuch as the bankers did not find it necessary to keep coin equal to more than a moderate fraction, perhaps a third at most, of their liability on their notes. So the invention and introduction of convertible banknotes tended to reduce the demand for the precious metals, to keep their value down. and consequently to keep general prices up. But the actual effect was small for a long time, because the demand for the metals was world-wide, while the area in which bank-notes was used was not large. Later, when the bank-note area grew in size and importance, the ability of banks to economize metal was very much restricted by legislation which insisted upon their keeping large holdings of metal against their notes. If the necessary holding approached closely to 100 per cent. the metal would not be economized at all, since the fact of being able to hold considerable sums in convenient paper encourages people to hold larger amounts of currency than if they could have nothing but coin. Legislatures have also sometimes prohibited the banks from issuing notes as small in denomination as the public would have been ready to accept and hold. In spite of these restrictions, however, the aggregate economy of metal arising from the use of convertible bank-notes in the world at large was very considerable at the commencement of the twentieth century. Its importance in keeping down the value of gold can be appreciated in whe try to estimate how much more gold would have been demanded if the United States, France, and a dozen other of the principal countries using large quantities of bank-notes had

suppressed them. But by that time another economy had been introduced which to a great extent took away the need for bank-notes as a substitute for gold. This was the cheque system, under which, instead of each of us encumbering ourselves with a stock of currency in the form of coin or bank-notes. we "put our money in the bank," and content ourselves with a small pocketful of currency replenished from time to time at the bank, knowing that we can make all large payments more conveniently by ordering the bank on a piece of paper to transfer some of what it owes us to the person whom we wish to pay The device does away with the necessity of an immense aggregate quantity of currency, since the banks do not need, in order to carry out their part in the arrangement, to hold nearly as much as their customers would have been obliged to do in the absence of the system. And the banks' liberty to hold as little as they find necessary has been less restricted by legislatures than their corresponding hberty in regard to bank-notes The economy gold and consequent tendency to cheapen gold and raise prices is obvious, and certainly very great

We have, however, no means of estimating it.
We may know that we keep an average of fro a
head in currency now, when we have banks, but
we cannot possibly form the wildest guess how much
we should keep if there were no banks Some of us
would probably never have been born. It whole

situation of the world would be different. We must became of any assemption that the amount of the tecomeny is relevated by the magnitude of the aggregate of bank deposits. Even if the aggregate of bank deposits excluded all double rectormugs by which it may be sealed beyond the set amount due to persons who have credit balances, it would probably be greatly in excess of the amount which those persons would hold in currency if no banking facilities were available. If the Sachty were not

making our moronings coincide more nearly with our outgoings rather than keep in the house sums of currency as large as our present bank balancs. A & till worse error, which has, unfortunately, been countenanced by many high monetary authorities in recent years, is to suppose that the aggregate of deposts is a kind of money (cometimes it is called "bank-money") which should be added to the actual

there, each of us would set about devising means for

stock of one and notes exerting at any moment. The individual, not doubt, fines' movey in the bank' much the same as "each in the house," but hank much the same as "each in the house," but hank much the same as mount which he bankers are lashed to may be an amount which he bankers are banks a only as a amount which he bankers are neach all set one moment of hashibity to pay cash so may be a mount of the bankers are not as a second currency as put on the market by some one who has the power of summer, it, proons are naued, houses the the power of summer, it, proons are naued, houses the surrough as and the market by some one who has the power of summer, it, proves or housely sleet to spend moment having been reduced. When, on the other hand, a proon moreouse has believe at the first hand of the stock of the stock of the stock of the house of the stock of the stock of the stock of the hand of the stock of the stock of the stock of the head of the stock of the stock of the stock of the head of the stock of the stock of the stock of the head of the stock of the stock of the stock of the head of the stock of th

most by the amount which he forgoes, so that the aggregate money-scending is not increased.

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This is obvious when board at from the side of those customes from some that had found at their power to be more than the side of the at their power to land except what is derived from the own capital. The opposite wave assess entirely from a currious belief that the power of the banks' cruditon on the deposite power to be able to deposite the result of the banks' cruditon growth to land being derived from the deposite results of the banks' cruditon of the side of the s

But whatever some bank charmen and some monetary theorists may think, every bank-manager knows that the customers who provide the funds which the bank lends and myests are substantial people who have property of their own which they nd convenient to entrust to the bank. They could of they had time and inclination, lend direct to the same people to whom the bank lends, but they find it better to entrust the business to an intermediary. the bank, which is expert at it and, by clubbing a number of them together as its customers, is able to let each of them have the money at any time when they happen to want it. The bank will pay them a little interest, or if not, will render many services gratuitously, including the service of keeping the some denouted more safely than they could be kept m cash in the house.

A good proof of the nature of what underlass bank deposits as to be found as the desth-duty returns if every one with any property ded at the same moment these returns would gove the aggregate property at their moment. The amounts owed by midwidniss who had borrowed from banks would not be set against and cannot the "cash at bank" an iteraturns of the property of midwidniss who had lent to (deposted worth) of the bank would not be compared to the property of the property of

navable on "cash at bank" They would be set against and cancel the value of property held by the debtors Thus if John Smith had 4300 cash at bank and James Brown had borrowed 4300 from the bank and bought sugar which has now become worth say (310, John Smith will be assessed for death-duty on I soo and James Brown on I to The perfectly real thing underlying the figures in the bank books is the sugar, and though that was in the possession of

Brown, this was only because Smith, through the bank, let Brown have the use of some of his " money," "capital" or "property," whichever phrase the reader prefers to use The fact that the banks are employed as inter-

medianes makes no difference to the substance of the matter If all the individual mortgages in the country called in the mortgages after due notice and, as the money came in, deposited it in banks which lent it out again on the same properties, the aggregate of bank deposits would be greatly raised, but does any one suppose that the "money" in the country would be increased and commodity prices raised? If all the Smiths had lent their three hundreds direct to Brown, bank deposits would have been less, but commodity prices would not have been less

"This is all very fine," some reader will say. "but surely it is true that banks control prices, since we

know that putting up the bank rate checks raine prices" Such a reader will probably suppose (with many authorities who ought to know better) that the high bank rate acts by reducing the "bankmoney" which they suppose deposits to consist of Certainly it tends to reduce borrowing from the banks, but it is accompanied by the offer of higher inducements to depositors to deposit or not remove their deposits. If the object of a rise of bank-rate were to reduce deposits, it would be accompanied by MONRY

the announcement of a reduction of the rate allowed to depositors, instead of which it is always accompanied by the announcement of a rise in that rate. The object of the rise of bank rate is not to reduce deposits, but to bresent advances prosone faster than usits if it causes deposits to grow, so much the better. The discouragement to borrowing causes the borrowing class to diminish their expenditure and does not encourage the lending class (the depositors) to increase theirs, but rather to diminish it. The and discouraging the borrowers very naturally tend to accumulate cash, which was just what they wanted. So, in consonance with the general theory of this book, there is an increased demand for currency. which tends to lower prices The banks take some currency off the market by "increasing their reserves." and, if we choose to put it in this way, we may my that they thereby, m so far, reduce the economy of currency effected by banking, an economy which becomes dangerous, and is therefore quite properly

too per cent. of what has been lent to them.

The power of taking currency of the market, however, as of a very lumited kind and a not hlady however, as of a very lumited kind and a not hlady hopes in currency without everying away their points and begamme to how by their trade, and they make the contraction of their contractions of their contraction

reduced, when the banks have lent or invested nearly

of those rises of prices which come from epidemics of optimism rather than of those more serious rises which come from excessive creations of currency, whether these arese from gold mines and minting or from the urinting of notes to meet the expension of governments which do not care to meet their expenses honestly by means of taxes or even loans The utmost possible increase of gold held against deposits by banks throughout the world would be a small matter compared with the present decennial output of the gold mines, while to ask the banks of a country.

say for instance Germany in 1923, first to print notes to lend to the government and then to absorb in reserves an equal quantity would be samply ludicrous The remedy for excessive issue of currency is not to be found in regulation of the rate of interest charmed by and paid by certain intermediaries (the banks) between lenders and borrowers, but in regulation of the same of the currency

\$ 4 The effect of "Coper" on the palue of deder

OPTIGHT. That banks which issue bits of paper promising to pay com on demand should, and must to avoid bankruptcy, keep in hand whatever amount of coin is required to enable them to perform their promise a obvious. The amount necessary will vary enormously with the carcumstances of the time and place, and to make any generalizations about it is made more difficult by the fact that banks of same always (or almost always, for the Bank of England's Issue Department and the British Government's Currency Note Account might perhaps be reckoned as banks) accept deposits from customers. They undertake to repay these also on demand, and the coin kept m hand for that purpose is not and evidently

cannot be sengrated from what is kept as "cover

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for the notes. The only thing that is very certain as that if a banks notes one get into crustalists and remain in circulation for some years, the average over required will be a very small percentage of the amount of notes cutstanding, as the demand to exchange them for com will always nearly equal the demands to exchange them for com will always nearly equal the demands to exchange com for them, and such discrepancies as occur will be known to be due at particular seasons, and therefore can be provided for shortly before they occur.

No one we supposed that the proportion of usel. "rower" beld against convertible noised directly affected there value. Their value will be the same at that of the coin min wheatch days are convertible, as at the other convertible, and the convertible, or "covered," no long as convention in behaved to be obtambable if abode for. The effect of variation in the amount of cover on the value or purchasing property intology, as the convertible of the country property intology, as the object of the country of which the country is not confident to the country of which the country is not supported to the country of the country of the country of which the country is not considered to the country of the cou

Legislators have very commonly belowed that bankers are spit to understands the amount of cover which it is necessary to hold in order to second cover which it is not second to both in cover which it is not second to be a second to

against all notes assued, all the profit of assue is taken away and where roo per cent must be kept against all notes issued above a certain amount (as for instance

to be oftered

and has in consequence of over-issue sunk below the bullion value it should represent, the mexical are

apt to imagine that the proportion of cover held against it does or should determine its value. A

When an issue is inconvertible into free bullion

away In such cases, if notes, or at any rate more notes are to be usued some other inducament has

Canadian Minister of State actually complained at a time when the Canadian paper was inconvertible because the dollar was worth less than the American dollar although, as he said, the cover held against the inconvertible paper Canadian dollar was a larger proportion of the issue than the cover held arounst the American convertible paper dollar. If the whole of the whole of the cover, there would be reason in this belief If, for example, in July, 1923, the 25,000 miliards of German currency had been exchangeable with the 650 million gold marks held against them, the value of a paper mark mucht have been taken to be one forty-thousandth of a rold mark, and if the three hundred millions of British Currency Notes had been exchangeable with the fifty millions of cover, the fx Currency Note mucht reasonably have been taken to be worth one-suxth of a gold pound, though the £5 Bank of England note on the same principle would have been worth about six-sevenths of five gold pounds But nothing of the kind was expected, and when the cover is not going to be paid out how can it affect the value of the thing said to be covered? Buried in cellars, it might as

under the Bank Charter Act, 1844, in England) all profit in assuing more than that amount is taken

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well be under the sea in the Titanic, or under the

Yet to such lengths of absurdity does the worship of "cover" so that cases have been known in which the issuers of inconvertible paper actually increased the issue in order to buy cover with the addition Little over a century ago, for example, when the then inconvertible notes of the Bank of England were depreciated, the Bank issued more in order to buy gold Since then there have been many instances in which return to a gold standard was delayed by the effort to accumulate cover, when what was really needed was a diminution of notes Obviously if the issuer of a paper currency which has become denrecated sells notes and buys gold, he lowers the value of his notes by supplying more, and raises, though doubtless not so much, the value of gold by demanding more, and thus he widens the gap between the par value and the actual value of his currency. If he wants to raise the value of his notes, he should do just the opposite, sell any gold he has and buy-and burn-notes. If the government of this country had been really anxious and determined, in state of all opposition, to raise the paper pound to par with the gold pound immediately, they could have done it very mickly some time before 1024 by applying a substantial but not overwhelming proportion of the gold held against the Currency and Bank Notes to the purchase and cancellation of notes.

to the purcases ain combitation of notes.

While microses of cover has no tendency to raise
the value of an monwrithle paper caming vowered
to requirement, if enforced, of too per cent. cover
for all further additions to the amount of the paper
will naminant it value. There we nothing paracolou
in this It happens sumply because the requirement
decrives the issues of all motivo to increase the store

"SCARCITY OF COMMODITIES"

and substitutes a penalty of the issue is depreciated fo per cent he will, to adapt a famous phrase, have to pay tempence for fourpence. Of course, he will not do it, and consequently the increase of the currency is stopped and this maintains its value

§ 5 "Scarcity of commodities" as a cause of high prices.

priors.

Times the war and afterwards, when a currency began to deprecate, it was often said that the cause of the nes of prices was a growing scarcity of commodities. This was supposed to be in argument in favour of uncreasing the currency, though it is difficult to the commodities of the commodities. This was supposed to be in argument in favour of uncreasing the currency, though it is difficult to the commodities had declared in quantity was a reason for making that decline greater in proportion in currency by uncreasing the outsitive of currency.

a reason to inating that occuse greater in propertion to currency by increasing the quantity of currency. If there is a desire to keep prices stable, it would seem much more reasonable to refeate the currency when there is a decline in the quantity of commodities. If the value relationship between currency and other them gas is mpet by a decline in the quantity of other things, it certainly will not be restored by increasing the quantity of currency.

But though the importance of changes in the

amount of commodities available was obviously no asymmet for mexicing corrences, it is worth while to ask whicher in treating of the causes of the resconducted by the control of the course of the reconducted by the control of the course of the retine of the course of the course of the course of the its recknown by the quantity of other things for which is recknown by the quantity of other things for which is recknown by the quantity of other things for which is recknown to the country of the things the first in the course of the course of the country of the property of the course of the course of the course of the quantity as before, may rese as which scenae other things have become more plentiful. Therefore, it will be suggested, in treating of currency and prices, we ought to think just as much about the quantity of commodities in general as about the quantity of currency.

The answer to this is that m fact no one thinks it necessary in the case of ordinary commodities to insist on the fact that their value depends on the absolute plentifulness of all other commodities as well as on their own absolute plentifulness. The relationship between the quantities is the thing we have to consider, and it is both legitimate and convenient to treat of changes in this relationship as if they were always caused by changes in the quantity of the thing in question, ignoring the possibility of their being caused by changes in the quantity of all other thines. It is legitimate, because it makes no difference to the argument whether the change in relationship is caused by change in the thing itself or in all the other things. It is convenient, because the change in all other things is almost always so slow as to be practically negligible over such period of time as we are likely to be interested in

Currency is certainly no exception to the rule If its standard is a metallic one, this is obvious. There is no more reason for insisting on the quantity of all other things when we are dealing with gold or silver

than when we are dealing with iron and tin.

If the standard is a paper unit, the variations in the quantity of all other things are likely to be even less comparatively important than when it is metallic The "scarcity of commodities" during the war was mythical Production was really very large:

what happened was that it was diverted into unusual channels. The production of a great many important articles fell off, but unmense quantities of munitions of war were produced instead; many services were

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dispunsed with, while military services immensely increased. No doubt the old commodities counted for much more in the composition of index numbers of prices than the new commodities, and consequently the index numbers exaggerated the real rise of general prices. But this forms merely one more example of the admitted difficulty of adapting index

numbers of prices to changing circumstances In the lassitude which immediately followed the war and the post-war boom, it is probable that there

was some appreciable reduction of commodities in general, but it is quite certain that this was absolutely negligible compared with the enormous fluctuations in amounts of currency which took place Any

abnormal scarcity of commodities which occurred was the merest trifle compared with the superfinity of Further, it may be pointed out that the newlect of changes in the quantity of "all other things" in the earlier part of this book is more apparent than real The two things which are likely to increase "all other things" are increase of industrious population and increase of produce for capita Increase of produce per capita is much the same as increased wealth, and both thus and increase of population have been dealt with under demand for currency so far as appeared necessary.

PART IT

THE RECENT HISTORICAL EXAMPLE

§ z. Gold Prices.

The many spears before the Wer all the great Western comprises and, since 1986, finds, reclosured workers comprise and, since 1986, finds, reclosured proces in gold, and consequently had no reason for that quadrage gold prices from paper prices. From the end of last contray to the outbreak of the Wer the same of the same paper prices. From the end of last contray to the outbreak or the Wer the demand for gold, though increasing, was not increasing fast enough to counteract completely the effect of the large annual additions to the stock of the same paper prices. The same paper prices are the same paper prices and the paper paper prices and the paper paper prices and the paper paper

have been considerably higher than in 20%, though not so high as they steally are.

The War tended to deminate the value of gold, by encrossing releaning the demand for it. Unlike most other important metals, gold is not used in the manufacture of monitone of var. Moreover, none manufacture of monitone of var. Moreover, none of the process of the pr

officing goods and servenes in exchange (see) any of the mery gold produced in the world from month to month, and, gong further, they sent out a good in the contract of the contract of the contract mental gold, and the needed countries to bey munitions with it. Thus the people of the neutral output of gold and also a large amount of the doltary of the contract of the contract of the contraction of the contract of the contract of the they get it then, but it, a they did not give as much goods and servens for each nunce of it as it was with before the Var. Soon even that nuriest was

much restricted, mace many of the neutrals, following the fashion set by the beligenest, used enough unconventible paper mosely to make the import of odd for currency maprofitable and the contract of the contract of the contract of the contract that, as there has been no great reversal of polary, as he such that it they seem that the present clast it may be such that it there should three tought before the Varbury what two owned have bought before the Vartice of the contract of the contract of the contract is in. The explanation is to be found classly in two facts. Firstly, the American Federal Reserve

at is. The explanation is to be found chieffy in two facts Fursly, the Austrean Federal Reserve Board has hearded a far larger amount of gold than unyons would have throught likely, and secondly, the low value of gold has had some considerable effect in dimmasing the profitableness of the gold must and eventually this reduced the output

§ 2 Paper Prices

A country which has the misfortune to be engaged in a war and as at all hard-pressed by the enemy acts quite reasonably when it parts with its glod in order to buy things of more immediate necessity from abroad. In doing so it is only acting as any private hordwise with ordinary common sense foces in analogous circumstances. There is, too, no mystery about the method by which the government can get possession of most of the gold in the country. With the proceeds of taxes and leans it can buy up all that is not current com, and the current com can be extracted from the pockets and this of the people by pruning a convenant paper legislation substitute and the country of the co

The can be done without assing more of the new currency than there existed of the old, and consequently the change from a gold to a paper unit of account—say from a gold point or owverign to a paper yound or Bradbury—seed not involve any deprecation against either gold or commodities and services in general. But the Buropean belignents allowed and sourcinged their sharts to mean such deal more paper legal-ender than the It is well to understand exactly how and why has carea should be understand exactly how and why has carea should

given m exchange for it without causing any financial

crists or disturbance

Sometimes when passe is profound and currences are prefetcily bealify, something start as general wave of optimism which makes large numbers of people lay and promuse to buy more goods and services than usual under the suprement that "bear with the processing the services than usual under the suprement that "bear with a service than usual under the suprement that "bear with a sell to be the processing the services than usual under the suprement that "bear is a "boom," and the "producess" for would be more accurate to say the community thanking of itself as a seller feet very progression. Soon, however, it is recognized that the progression Soon, however, it is recognized that having to they at proces which are only "good" not having to they set proces which are only "good" not he seller but are "shooking" to the buyer, while

the nail and sellers become more desirous of immediate receipts If either buyers or sellers were now given the power to point as much additional legal-tender paper money for their own use as they liked, no fliculty would be felt. The sellers could then give the buyers unlimited credit or the buyers could pay the sellers at once As neather party has that power, they both, or rather some of each party, run to the banks for accommodation, 10 to borrow, some buyers intending to pay at once with the borrowed money and some sellers intending to tide over the time till buyers who cannot pay at once are able to do so. At this point again, all difficulty would be absent if the banks had the power of printing as much legal-tender inconvertible paper as they liked They would print, and as business would continue good," they would be able to lend large quantities at a low rate without fear that the borrowers would be unable to repay Thus, whether the manufacture of the paper money was entrusted to the traders or the banks, the boom would go on until the currency became discredited by its excessive increase as described above p 70 As things are, where there is a currency limited in some way to an amount which can exist without loss of value, the demand for accommodation rises sharply, the banks see that they themselves will soon be in difficulties and unable to meet their obligations unless they choke off some of the would-be borrowers and encourage depositors They therefore ruse the rate which they charge to borrowers and the rate which they pay to lenders epositors), while at the same time they become offer about the security offered by horrowers bubble then bursts The "producers" find that their prospects are not nearly so rosy as they so posed: their expenses have risen as well as their

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receipts, and now that the wicked baths have, "yet on the cave," yet, when are obliged to hold eff, and they themselves, "though perfectly sound," own; to the impossibility of getting milliment accommodes ton, have difficulty in carrying on their business on the scale to which it has risen. Pessimism successed optimism, and the upward slope of proces in which the predominant desero is to spend money on goods and services, is successed by a downward slope in which the predominant desero is to sell goods for

money. In a war the situation is different. It is then not private persons and institutions, but the government which starts the rise of prices by profuse undertakings to buy goods and services without much thought of how the expense as to be met. When the hills begin to come in, the revenue, augmented as yet, if at all, only by small additions, is quite inadequate to meet the additional payments. A private person or institution without realizable capital in analogous circumstances is obliged either to borrow, even if the terms be what he calls "rumous," or to go into bankruptev. Bankruptev in such circumstances is clearly of no use to a government, a government has to continue in business. A government which appeared secure and was expected by its subjects to win the war, could probably always borrow as much as was needed, if it were willing to pay the necessary price, which would be a very high rate of interest at first, but one which could be reduced by reborrowing at lower rates after the war Governments. however, are afraid to offer good enough terms, They think it will encourage the enemy if they have to pay even only double what they had to pay for loans in time of peace. The "business community." or so much of it as borrows from banks, terrifies it with stones that if it gives high interest the rates

charged to private borrowers will rise and a "dead! blow be struck at the ministry of the country, which not sufficiently widespread to enable the government to reply that the industries serving the war directly. or, by the provision of necessaries, indirectly, will be able to nay, and that the more the others are closed

down for the time the better And the government can do what the private individuals and institutions could not do-it can next local-tender moonvertible paper money for stself or borrow at from its creature, the State bank. worch at authorizes to print and lend. This is what all the European beligerent governments did, some of them at once and others a little later, in the recent your. In this country the direct method was preferred, the Treasury steelf printing the Currency Notes (popularly known as "Treasury Notes") though it assued them all except a small portion by way of sale to the Bank of England 1 In France the Eank of France was authorized to print the required notes, and they were lent to the enveroment. he little the nature of the transaction was understood is shown by the fact that the Bank of France was paid one per cent per annum for "lending" these notes to the government and actually got credit for generosity on the strength of it, though it is an outrageously

1 The small part was lent to certain say in the War and has all been repeat. The rest of the n were given to the Bank of England in exchange for stotes plyer over and condite in the rom fune to ture taken f and Treasury Bills, etc. This put the amount the command of the spending departments of the g which proceeded to give cheques to persons whom pay These persons then were paid by the et as much as if they had received the notes day

high commission for printing and maintaining such an issue, which is the proper description of what is

done by the bank. That the issue of mozavertible paper was a broken red for governments to lean on was not then nor for a long time so well recognized as it is now "I was a quack way of getting power to spend—much pourng out money at the central market for long, commonly called the Money-market, it kept the rate of interest down, and so appeared to enable the government to borrow on better terms. By naking process all morath it discussed the named of "money" process all morath it discussed the named of "money" process all morath it discussed the named of "money" process all morath it discussed the named of "money" process all morath it discussed the named of "money" process all morath it discussed the named of "money" process all morath it discussed the named of "money" process all morath it discussed the named of "money" process all morath it discussed the named of "money" process all morath in the named of the na

commany causes the superparates; it says the saw of an interest town and as appeared to make the present of the command of the

income.
With the exception of the first, all these apparent advantages turned out delainer. Three that some of the taxes and other revenues lowquit more more, but they row less rapidly than the expresses of semination of the control of the contro

been increased, and eventually, when the continuous depreciation became recognized, it became impossible for the State to borrow at all. True that loans were raised at first at lower rates of interest, but if the depreciation was not to be permanent the lower rate was counterbalanced by the larger amount which had to be borrowed. True that to be pinched by high prices rather than by small money incomes and large taxes made the people rage in the first place against the persons who were supposed to profit and often did profit—most of them quite innocently—by the rise of prices instead of against the Government, but in the end the people came to the conclusion that the Government was in league with the hated "profiteers," and political discontent began to boil, and in some instances boiled over.

One advantage which was not foreseen or intended was obtained. As the currency fell in value the real burden of national debt contracted in that currency diminished. The pre-war debt of the Austrian government was reduced by the depreciation of the krone caused by the War to one-fourteen thousandth of its original gold value, and that of the German government to the incredibly small fraction of one billionth. In such cases bondholders are congratulated if they get a "compassionate allowance" of 5 or 10 p.c. Such a reduction of burden is a real advantage to the State in its corporate capacity, though we may agree with Adam Smith that the advantage is far more than counterbalanced by disadvantages to the community. To cover up its own real insolvency the State involves millions of private persons and institutions. Not only the State debts, but the debts of local authorities, companies, and individuals, are lightened to the debtors at the expense of their creditors; and not only debts but all other obligations to pay fixed sums of money, such as the rents

sayable on long leases, preference and preferred cetinary dividency, pensions, and like namities are virtually written down, the owners being chasted to benefit, not the Government or the country ny general but the persons who have to pay these sums, and who for the most part had no dame to thus skulle out of their proper oblegations. Under an avowed bankrupticy, as Adam Smith) partly observes, even the Gate creditors would as a body he better cut, obligations, right to fixed sums available profidbless.

and private institutions.

"In most countries the creditors of the public

TOO

are, the greater part of them, wealthy people, who stand more in the relation of creditors than in that of debtors towards the rest of their fellow-citizens. A pretended payment of this kind, therefore, instead of alleviating, aggravates in most cases the loss of the creditors of the public; and without any advantage to the public, extends the calamity to a great number of other mnocent people. It occasions a general and most pernicious subversion of the fortunes of private people, enriching in most cases the idle and profuse debtor at the expense of the industrious and frugal creditor, and transporting a great part of the national capital from the hands which were likely to increase and improve it, to those which are likely to dissipate and destroy it. When it becomes necessary for a state to declare itself bankrupt, in the same manner as when it becomes necessary for an individual to do so, a fair, open, and avowed bankruptcy is always the measure which is both least dishonourable to the debtor, and least hurtful to the creditor. The honour of a state is surely very poorly provided for when, in order to cover the disgrace of a real bankruptcy, it has recourse to a jugging trick of this kind, so easily seen through.



and at the same time so extremely permitious "I In our own country the evil of an ever-increasing currency continued throughout rorg, though at a speed reduced to about half what it was during the letter port of the War, but at the end of the we octermiration to stop the rot became manifest Carlife Committee which was appointed in Januar rorc, "to consider the various problems which will arus in connection with currency and the foreign exchanges" had made in August of that year (when the first edition of this book was being written) an interim report which favoured the retention in the future British currency system of the principle of the Bank Charter Act of 1844 that the paper currency should be limited by the requirement of 100 per cent. cover for all notes issued above a certain meximum. and recommended that after the completion of demobilization till the amount of that maximum could be definitely fixed, the actual highest amount reached in any one year should be the legal maximum for the next It rejected the suggestion "urged in some quarters that in order to make possible the provision of a liberal supply of money at low rates during the period of reconstruction further new currency notes should be created with the obsect mg banks to make large loans to mdy without the risk of finding themselves short of car to meet the requirements of the public for After a wear and a quarter of

to activity, and presented on December 3, roro. a short Final Report of which the important part was the seatement that "effect should now be given to the recommendation made in our interim Report to the recommendation of that the actual than multi-Wealth of Nations, Bk. V. ch m; m n, pp. 415-10 8 JUN 2001

apparent somnolence this Committee awake again

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year should become the legal maximum for the following year.' The Government, Mr Austen Chamberlan being Chancellor of the Exchequer, forthwith adopted the recommendation, and the Lords of the Tressury issued a scrap of paper which I will give infull, as it is one of the most important documents in the monetary bustory of the world.

"Treasury Minute,

Dated the 15th December, 1919.

The Chanceller of the Exchenger draws the attention of the Board to paragraph & 10 the Final Report of the Committee on Currency and Foreign Exchanges after the War, which recommends the impostion of a maximum limit on the issue of Currency Notes under the Currency and Bank Notes Act, 1744 The Chancellor proposes to the Board that steps shall be taken to give effect to the recommendation of the Currency Notes in any war whether the Currency Notes in any war whether the State of the

for the following year.

The maximum didocary crealation during the expired portion of the contract calendar year. In a contract the second of the contract the second of the contract the second of the contract the

preceding 12 months.

Let copies of this Minute be transmitted to the Banks of Ergland and Ireland, the Bankers' Clearing Hous: Committee, and the Comptroller and Auditor-General and let copies be presented to both Houses of Perhament"

news: Committee, and use compresses and Auditor-General and its copies be presented to both House of Parlament."

In estimating the importance of this document and of the Candide Committee which impored it, we must remember that the obligation of the Bank of Ergland to keep noo per one: cover against all notes issued above a certain fact amount had taken on a new and much greater importance since convertibility may be good one freely exportable and methads.

tabilty mate gold come freely emportable and moritable had been taken very demning the War. He Borte the War, I the roo per cent requirement had been the way of the root per cent requirement had been the property of the root of the root of the root of the period of the root of the

gold disspected. Thus the Comittle Committee had no need to trouble about Bank Notes. The scheme consequently put a limit on the whole paper currency. The Government was not likely to buy gold at a premum to hold against additional Currency Notes (see above, p 88), and, as the amount of Bank Notes was faced in the way yust explained, to buy Bank Notes to hold against additional Currency Notes would only mean that the public would have

to give up one five-pound Bank Note for each five one-pound Currency Notes—a substitution of small denominations for large which would not affect the total currency in their hands at all.

The Treasury Minute, reviving memories of the the Bank of England from issuing notes above the maximum as if the Bank was something more than the mere agent of the Treasury in the matter, but there is no getting over the fact that the Currency and Bank Notes Act, 1914, gives all power to the Treasury -" The Treasury may, subject to the provisions of this Act, issue Currency Notes for one pound and for ten shillings," and "Currency Notes may be issued to such persons and in such manner as the Treasury direct."1 The Minute really amounted to a self-denving ordinance (very properly commumcated to the Bank of England and the other banks) by which the Treasury bound itself to provide for all the future outgoings by other means than the issue of notes From very shortly after the beginning of the War down to December 1010, sales, known as " issues," of Currency Notes, had supplemented what was obtained from taxation, from borrowing from individuals and institutions such as the Bank of England and other banks at home and abroad, and from sales of war stores and other murellaneous

The remander of Clause s, of which these last words from the opening runs. "but the amount of any notes assend to any person, shall, by varies of this Act and without further than the state of the true, that the intention of the Act we only to provide learn state of the stat

sources Some persons unversed m the art of public finance as now practised, which consists in overlaying symple facts v ith accounts which make them unintellicuple, have been puzzled because they cannot find the three hundred millions raised by the issue of the fiduciary Currency Notes anywhere in the national accounts for the years roze to roro The explanation is that the Currency Note Account was treated as a "Government Department" able to lend money to the Exchequer So the millions which came in from the usue of notes, so far as they were not absorbed by the gold, bank-notes and silver com which were stored away in cellars and appeared in the weekly account, were advanced to the Exchequer either simply as "Government Department Ways and Means Advances" (of which they formed a proportion so

substantial that the Government always refused to disclose its amount) or by taking up Treasury Bills and other Government securities. The receipt was thus effectually hidden away by being mixed industinguishably with money borrowed in the ordin-

ary way or derived from the Swengs Benks and cheer public and sem-public nativitions. Henceforward the Treasury was to dany steel that recours (See Appenda. 1). Our newspapers were indicate necessary correspoperson much which were made sign necessary correspoperson much which were made sign necessary correspotence of the steel of the steel of the steel of the purpose of the steel of the steel of the steel of the Base of the scout steel of the steel of the steel that the steel of the steel of the steel of the water than the steel of the steel of the steel of the water than the steel of the steel of the steel of the water than the steel of the steel of the steel of the water than the steel of the steel of the steel of the water than the steel of the steel of the steel of the water than the steel of the steel of the steel of the water than the steel of the st

when it issued the Minute of December 15, 1919
For a good many weeks the fruits of the undertaking

were not very visible. The Bank, no doubt from intelligent anticipation, had on November 6 raised the bank rate I per cent above the absurdly low rate of 5 per cent which had been maintained by the help of the output of new currency since April. 1017. But prices went on rising fast. As for the note issue. Christmas is the time of year at which people arrange to have most cash m their pockets. pofore Christmas it is drawn out of the banks in large quantities and they meet this drain by drawing from the Bank of England When the season is over the public has spent the money, and the extra notes trickle back as they are paid in to the banks by shopkeepers, entertainers and others. The banks deposit them with the Bank of England, which at that time paid Currency Notes in to the Currency Note Account, so that there was always a great drop in the amount of Currency Notes outstanding in the course of January. But when the seasonal drop was over, the prospect of the limit stopping the general slope upwards which had been going on for five years began to exercise the influence which the prewar impossibility of getting unlimited sovereigns without paying full value for them had always exercised The banks, foreseeing tightness, became chary in making advances, and the Bank of England raised the Bank rate to 7 per cent in April. The banks did not, as some alleged at the time, " restrict credit" out of mere malice, nor from an unusual access of covetousness, nor out of a patriotic desire to end the rise of prices, but because they "hadn't got the money," and the reason why they had not got it, and did not expect to have it, was the adoption

of the Cunlific limit
Under this damping influence, the post-war boom,
which was merely an extension and exaggeration of
the war boom rather than an independent hoom.

rapidly passed away and a great fall of prices began.

\$ 3 Restoration of the sold bound

Following the spirit as well as the letter of the Cunlifie Report, the Treasury did not content stself with observing the himt laid down in the Minute, but so arranced its incomings from taxation, interestbearing loans, and other sources that they exceeded its ourgoings for current expenditure, redemption of debt, and other purposes The result was that during the fiscal years April x, 1920, to March 31, 1023 for more exactly in the period between March ar. 1020. and March 28, 1923), it was able to burn £50,000,000 of Currency Notes besides adding to the reserve held against such notes \$7,000,000 of silver com withdrawn from circulation and £16.500,000 Bank

of England Notes 1 But as it loves to do good by stealth, it made no parade of the fact that it was steadily redeeming non-interest-bearing debt in the shape of paper currency and substituting interest-bearing debt. Nobody could discover in the national accounts any record of the seventy-three millions spent in withdrawing currency, any more than they had been able to discover any entry of the three hundred millions received by issuing it Just as the receipts had been disguised as money obtained by issuing Treasury Bills or by getting Advances from Government Departments, so were the expenses disguised as money spent in redeeming Treasury Bills and repaying

3 It is true that in the same period the Bank of England Notes increased by \$10 m . but this is not to be set off arming the withdrawals mentioned in the text. It was entirely due to the fact that the other banks were personaded to exchange their gold for bank-notes, and there seems no reason to believe that the notes left their vanilts any more than the gold had done, while at the Bank of England the gold was simply stored away against the notes.

Advances from Government Dipertiments, and fee process supported that the Carmony Nivês Account was the largest holder of Tressury Bills and the largest holder of Tressury Bills and the largest holder of Tressury Bills and the largest tooms intended to bring out the facts were always somethered by Manuters in the House of Commons, and the uninstructed public mangened that the relationship of the state of

By the med of the three years the work of restoring the pound to the dip party with gold was nearly done. In March, 1900, the paper pound was colly worth about 20 per count. of the gold contents of a sevenene, ... in March, 1900, the spare pound was colly worth about 20 per count. of the gold contents of a sevenene, ... in March, 1903, twa worth over 60 per count. In March, 1903, twa worth over 60 per count. In March, 1903, the spare country was absorded in the part of the spare currency was absorded in Avour of Issapung it Sationary was absorded in Avour of Issapung it Sationary was about done in Avour of Issapung it Sationary due to a change of personnel which had taken piace at the Treasury, to manifestal fisten of the Opposition of the Country on the part of light financial subtrottes about the return to the gold standard, or to a belief march in the country of the part of light financial subtrottes about the return to the gold standard, or to a belief march in the special country of the part of light financial subtrottes about the return to the gold standard, or to a belief march in the special s

satter port of 1923 and January, 1924, the pound and gold gradually approximated, until early in 1925 98} per cent was reached

Ir ducement to shrink no longer from the final plurge was then furnished by the decision of South Africa to adopt the report of Professor Kemmerer and Mr Viscening and return to the gold standard on July z. It was not to be expected that London could view with equaminity the prospect of continuing on a mane; standard when a British Dommion with a

mint of its own was using and reckoning in gold sovereigns

Accordingly Mr. Churchill, as Chanceller of the Evelency, amounced in all Budget speech at the end of Agar that the Treasury would henceforth allow in Bastic of England complete resonant to expert come and bullom. As it was understood that the Bank stroyed the basic own which the page standard restrict (as explained on pp. 53, 54 and restreed the gold standard. The proof come now beamer sciential in value with a sovereign which could be freely expected, the standard and the proof of the freely expected, and Appendix, p. 2019 (made to practical difference.

It is constituted questioned whether if the Camille Committee had foreseen the subsequent depression and unemployment, they would have made and the constitute had foreseen the subsequent of the constitute of th

light as those which a spendthrift or a drunkard is rightly exhorted by his friends to face like a man."

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rightly exhorted by his friends to face like a man."
For the rake to stop his fatal progress and endeavour
to lead a godly, righteous, and sober life is painful,
but when he is at length succeeding, he should not
turn round and belabour those who set him on the
right road, but rather turn his indignation on thought
who before led him wrong, and now would like to

get him back on the wrong road.

At any rate we may congristiate ourselves that our people have been much better off than those of the countries which continued much longer on the wrong road Some of them have been unemployed, but starwation and other forms of extreme suffering are to be met with among them far less than in countries where the wages of workness doubled—in paper money—were yet weeks They are more impaper money—were yet weeks They are more

in paper money—every few weeks. They are more contented, and their government is solvent. But why not, it is asked, have so arranged the limitation of currency as to stabilize prices at the level of April, 1720, mistead of reducing them violently? Would not that have obviated the depression and unemployment and also avoided the mjustice inherent

Would not that have obvasted the depression and unemployment and also avoided the mustice inherent in a full of prices, which does not compensate the same people as those who suffered by the previous rise? The answer is, firstly, that when prices have been

The sawer is, firstly, that when prioss have been raming steadily for five years business has come to be so based on the surbupstom of a continuance of their nes, that the mere taking every of that intringation of the continuance of the cont

will on the whole be more just than a continuance of the high level reached. Every one will admit this, if allowed to put his own interpretation on "long" The rise which reached its zenith in April,

rozo, had for the most mert taken place in a period shich for my part I should not consider long, and the return from the beights of that date to gold level which was and is much above the pre-war level, seems to me a very tolerable compromise between

the claims of those who would have been justly treated by a return to the pre-war level of prices and those who would have been justly treated by a mamtenance of the top prices of 1920

But to advocate any particular level of prices is how different levels-or slopes-are in fact attained and maintained.

APPENDIX I

CURRENCY NOTES AND THE EXCHEQUER

Ir is obvious that any person or institution exercising the power of issuing scraps of paper which pass as fx will benefit to the extent of almost fx for overy scrap issued, except in so far as gold or other idle treasure is kept "against" or as "cover for" the

as kept "againsts" or as "cover for " them.
There are two simple ways by which a government
issuing or allowing the issue of such acrays or "notes indiducedly in payment for goods and service, or (a) it
may allow a bank to issue them by way of loan to
itself and others on such profitable terms as may be
agreed between intelf and the bank

to the such profitable terms as may be
agreed between intelf and the bank

Under the first of these plans the benefit to the national Exchequer appears in the simple form of a receipt from the issue of paper currency in the year of issue . and if in a subsequent year some of the paper was redeemed by the State, the expense of redemption would appear as payments for redemption of paper currency Under the second system the benefit from issue and loss from redemption will not appear directly in the Exchequer accounts as receipts from usue and expenses of redemption in the years in which they occur, but will have to be looked for in the relations between the bank and the government, and may be spread over many years. The compensation paid by the bank to the government usually takes the form (as in France) of advances to the State at no rate of interest (or at a very low rate supposed to be enficient to cover only the expenses of issue). but it also takes many other forms (e g the annual amount paid by the Bank of England for the priviles of its fiduciary issue) When this system is adopted 112

redemption of paper currency is made difficult by the fact that when the arrangements with the bank were made, A ves usually forgotten to provide that if the Store record any of the advances the same was to be required deep desure. So if the government raises money from the public by borrowing or collecting tayes from them, acc repays some of the advances made by the cank, the conk is ant to merely lend what the government has repaid to its other customers under the pretence

that " commune recourse at " and not reduce the currency at all The man of the British Currency Notes issue yas inter med are between the two sample plans. The Currency and Bank Notes Act, 1014, and the subsequent arrangements of the Treasury set up a Lind of honk, very hi the Issue Department of the Bank of England, for the same of &r and ros notes, but without any provision

for "cover." and it called this bank "The Currency Note Account" The bank thus constituted proceeds to sall its notes to the Bank of England in much the same way as dealers an gold used to sell gold bulbon to it For 446,240,000 of notes the Account took Bank of Empland notes and from these at got no advantage as they were stored away as cover (The Bank of England also got no advantage, because it was obliged to hold gold against these notes it would really h been sumpler if the Bank of England notes had been cancelled and the gold strelf put in the Account materal

With five and a half milion more of the notes the Account acquired that nominal amount of silver com, holdier that too m store, and getting no advantage from it The remainder, about \$235,000,000 towards the end. was rand for by the Bank of Rooland from type to type crediting the Account with that amount in the aggregate in its books (which it was able to do because it paid out the Currency notes to its customers, including the government itself) The Account in turn withdrew the sums credited and advanced them to the Exchequer at the market rate of interest Up to this point there is no trace of benefit to the Exchequer except that it has found a

near lender-at paid interest to this lender root as it

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cation seldom pays in the long run.

might to anyone else. But the Account did not keep the interest permanently; from time to time it pand over to the Exchequer its large profits (the difference between the expesse of printing and reprinting on the one side, and the interest received on the other Under this scheme both the receipts from issue and the expense of redemption were halden, and this perhaps

one side, and the interest received on the other)
Under this scheme both the necepits from sisses and
the expense of redemption were hadden, and thus perhaps
made issue a little less attractive and certainly made
redemption less repellent. We may well suspect that
the redemption which occurred from 1990 to 1933 could
not have been effected if the cost had appeared in the
naturnal accounts of those years. But financial mystifi-

APPENDIX II

THE GOLD STANDARD IN ENGLAND BEFORE THE WAR AND APPER 1925

A COUNTRY is on the gold standard when it uses a monetary unit of account which sames in value almost

exactly with the value of gold bullion in the world market The English monetary unit has for many centuries been the "nound." often called, to distinguish it from other pounds, the "pound sterling" Shil

and pence, also used in accounts, are merely names for the twentieth and the two-hundred-and-fortieth parts of a pound Before the war the currency of England and Wales

connected of bronze come for a penny, halfpenny and farthing, alver coins for various sums from 14, to 54 enid come for Ar and ros called soverness and halfsovereigns, and lastly. Bank of Rogland notes for 4s.

fro and larger (always round) sums There were also a few country bank-notes, but as these died out altogether before roas we may amore them The broase and silver comages formed a purely

"managed" currency. They were kept at par with the rest of the currency by the polary of the Mint, which was to com as much as and not more than could circulate comfortably at the appropriate rate. Of course occasonally a withdrawal of such subsidiary comess may

be required by a fall in the demand for it, but since 1816. se policy was first adopted in regard to silver. there had been no metance of a comuderable decline in TIE

the demand for bronse or select come so that the amount in exculation had been sufficiently regulated TTG

by greater or less activity in coinage. The metal in the come was always worth considerably less than their face value, so that there was never any danger of their being metited or exported for the sake of their metallic contents. No change has taken place in regard to this part of the currency except that the salver as the silver coins has been reduced from 92 per cent, to 50 per cent, and that the Tursanury has great scales around of in its and that the Tursanury has great scales around of the

willingness to withdraw silver com when necessary. Bank of England notes were printed promises by the Bank to pay sums of pounds on demand Though legal tender for pounds when tendered by anyone else, they were not so when tendered by the Bank itself, so that holders of the notes could require the Bank to pay in gold com (silver com being legal tender only up to 42 and bronze only to Is). This obviously made it impossible for the notes to be issued or to continue in circulation m larger total amount than was compatible with their maintaining a value equal to that of a sovereign for each pound expressed on their face. And the sovereigns. in turn, could not be issued and kept in circulation in larger aggregate amount than was compatible with their maintaining a value equal to that of 113 grains of fine gold, since, if they fell appreciably below that level of holders who would see a profit m the transaction A sovereign being worth less than 113 grains when passing as It would mean m the language of the bullion market that the price of gold was above 43 17s 10td standard and 44 as IIld fine, so that full-weight sovereigns would sell for use in the arts or for export for more than a pound each Thus the aggregate currency of banknotes and sovereigns was always kept in check by the convertibility of bank-notes into sovereions and the convertibility of sovereigns into free gold bullion

On the other hand the Bank of England notes could not be so deficient in total amount as to rise in value appreciably above the rate of 113 grains to the pound, because the Bank was bound by law to give notes in exchange for all gold bullon offered to it at £3 17s 93 per ounce standard. Thus bank-notes were always forthcoming to an amount which kept their value down

The gold com could not be so deficient in amount as to my appreciably above the rate of 113 grains of fine gold because the obheation of the Bank sust mentioned to one notes for bullion meant also that sovereigns could be obtained at that rate, since the notes could be presented at once and payment claimed in sovereigns In practice of course the Bank gave neither notes nor sovereigns for gold bullion, but credited persons prosenting bullion with pounds in its books, and allowed them to draw on these pounds as they chose It met their eventual demands or the demands of those to whom they transferred their claims other with additional notes issued against the gold brought in or with sovereigns couned nut of it, thus in either case increasing the currency and tending to reques its value 5 of bullion might, if they liked, have taken their bullion direct to the Mint and had it turned into com at the rate of /s 170 m'd per ounce standard, but the delay deterred them, so that this right had fallen into desuctude and the Bank alone was in the habit of setting mid coined Thus the convertibility of bullion into notes not only "automatically " kept up the supply of notes, but also in practice "automatically" kept up the sopply of sold come so as to prevent it mans in value

where the state of 112 ground in £1. These pith come to be provided by the pith come of the control flower than the pith come of the control flower than the pith control flower than the pith control flower than the pith of the control flower than the pith of England duming the ware and alternated gave up to England duming the ware and alternated gave up to England duming the war and alternated gave the pith control flower than the pith control flo

in exchange for additional gold, which sharply limited their amount But the Currency notes, until December. 1010, were assed without any limitation at all, so that

unlimited degrecation was possible.

From April, 1925, the gold standard was restored. The Government ceased at once to exercise its power of preventing the export of gold, and the Act which gave it that power was allowed to expire at the end of the year. The Gold Standard Act, Toss, shoushed the right of holders of gold builion to have it comed into sovereigns by the Mint and the right of holders of Bank of England

notes and Currency notes to demand soveresons from the Bank, but left untouched the right of holders of gold bullion to demand Bank of England notes from the bank at 43 17s od, per standard ounce, and gave the holders of Bank of England notes and Currency notes the right to demand in exchange bars containing 400 os. of fine sold at the rate of 43 17s 10ld per standard ounce So far as standard is concerned, the difference between

this system and that in force before the war is practically ml. The holders of gold bullion descrous of converting into pounds are in as good a position as before, since they always preferred the Bank's immediate iders of notes degrous of converting pounds into free gold bullion are in a very slightly better position than they were, as they can now legally demand the absolutely full weight of gold at 43 175 104d whereas formerly the bank could satisfy their demand with sovereigns and half-sovereigns which might be a little below that weig owing to abresion within the legal limit. The few holders of sovereigns and half-sovereigns, which remain legal tender, are in the same position as before the war, except that the right of melting the coin has not been restored, a matter of httle practical importance even if the law were capable of enforcement against the very small rewellers and others who alone are likely to find it convenient to melt the very few gold come likely to come into their possession The object simed at by the change was to prevent

the public being able to replace their stock of Currency notes by sovereigns and half-sovereigns. But there was no reason to believe that the public had any desire to do this. The experience of all civilized communities has gone to show that notes are preferred to gold coin even when issued in somewhat lower denominations than for ten shillings at present prices. It should be noted that as the sovereign and half-sovereign remain legal tender, there is nothing to prevent individuals and banks from importing those which are minted in South Africa and Australia and putting them into circulation if they see any advantage in doing so.

The Gold Standard Act, 1925, while putting on the Bank of England the obligation of giving gold bars in exchange for Currency Notes, did not take away from the Treasury, alias the Government of the day, the power of withdrawing the Minute which established the Cunliffe limit, and thus recovering its freedom to issue an unlimited amount of notes. This weak point was removed by what was called the "amalgamation of the note-issues" effected under the Currency and Bank Notes Act of 1928, which came into operation on Novem-

ber 22 of that year.

That Act repealed the provisions of the Currency and Bank Notes Act, 1914, which gave the Treasury the power to create the Currency Notes, and it provided that the Bank of England should redeem the existing outstanding issue by itself issuing £1 and 10s Bank Notes in exchange. To balance the hability thus taken over by the Bank, it prescribed that the Bank should receive the whole of the Bank Notes (£56,250,000) and silver coin (£5,250,000) held in the Currency Note Account, together with a portion of the government Securities held in the Account, sufficient (with the Bank Notes and silver coin) to make up a total equal to the amount of Currency Notes outstanding (£286,750,000). The Bank Notes transferred, which had been purely unnecessary and meaningless intermediaries between Currency Notes and the £56,250,000 of gold bullion held against them. were immediately cancelled, and this eliminated a double reckoning in the total of paper currency which had

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always deceived most foreign observes. The Act further provided that any septim left in the Caurmagn forther provided that any septim left in the Caurmagn Note Account after these transfers to the Readquer, that wandary on the McNedopers, that wandary on the McNedopers, that wandary on the Workshop and the Caurmagn and the accountment of the Caurmagn which are considered to the accountment determined the accountment of the acco

the "Comfife lumit," so for as its curson was of the maximum folicitary sins of the prevense years we conmaximum folicitary sins of the prevense years we consumation of the province that the "feducary sense" (as the amount of Bunk Notes of all denominations which need not be covered by gold as now officially as the same was arrived at by adding the £42,000,000 coppermentable for real under the Comfise lumit to the old benefit of the same was arrived at by adding the £42,000,000 coppermentable for real under the Comfise lumit to the old benefit of the same was also as the same was also as the benefit of the same was also as the same was also as the laws a page currency of its own This £60,000,000 may be varied by the Transery on the request of the box, will post constant as for the form one than two years.

ton, will not continue in force for more than two years without parliamentary sanction. The profits of the whole of the issue (notes for £5 and upwards, as well as for £1 and nos) have to be accounted for by the Bank and pand to the Exchaquer.

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